



# Product Catalog

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Comprehensive networking  
solutions for enterprise IT  
and AV needs

VOLUME 25 - 1

# WHO IS NETGEAR?

In business, confidence is everything. When it comes to your network, it's even more important. Whether you're a small business with big dreams or a mid-size business ready to take the next step, you need to share access and ideas safely, connect remote locations securely and give your people the tools to perform. At NETGEAR, we provide networking, storage and security solutions without the cost and complexity of big IT. Our advanced range of reliable, affordable networking products are easy to install and maintain. We deliver solutions you can count on, so you can spend more time on what matters most – growing your business.

## MILESTONES

- 2003 First Smart Switch
- 2010 First Lightly Managed Switch
- 2011 First 10G Smart Switch
- 2017 First Fully Cloud Managed Switches and WiFi
- 2018 Pro AV modular 96-port 10G 24-port 40G Switch
- 2019 First Business Instant Mesh WiFi
- 2020 First Ultra60 PoE++ Smart Switch
- 2021 Business Essentials WiFi 6 Access Points
- 2022 Engage: First AV User Interface, Powered by NETGEAR AV OS™
- 2023 100G Switches built for Pro AV
- 2024 Launch of WiFi 7 Access Points
- 2025 Acquisition of Exium Cybersecurity company



**NETGEAR**  
**ENTERPRISE**

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# NETGEAR® ENTERPRISE

## Enterprise-Class Business Solutions at the Right Price

NETGEAR Enterprise is the trusted partner of businesses around the world. We make it easy to do business with us, providing intelligent, right-sized solutions that anticipate business needs – ranging from networking and security to AV and IT.

Our goal is to deliver everything you need and nothing you don't, with simplified licensing, straightforward pricing, and no bloat. We believe achieving enterprise-grade performance should be effortless, because when your technology works seamlessly, your business can achieve the extraordinary.

### Commitment to AV

We are committed to the consistent delivery of best-in-class connected network solutions for the broadcast, custom integration, and commercial AV markets. From our industry-leading product suite and unmatched service and support, the NETGEAR AV promise is to meet and exceed our commercial partners' requirements at any stage of their growth journey.

NETGEAR AV means solutions that fit your needs and your budget. Our comprehensive portfolio of switches, routers, and wireless access points enables you to find the combination of products you need now with room to expand for the future.

### Brand Promise

Powerful connectivity to maximize your productivity, profitability and potential.



Industry-leading innovation

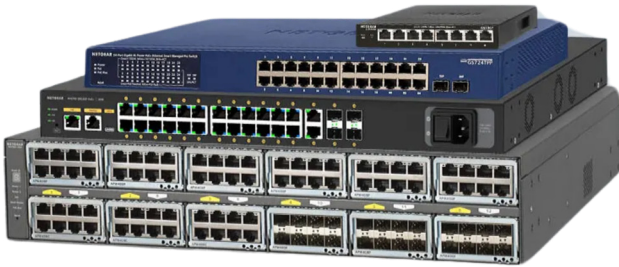


Easy to use



Modern & affordable

## Industry-Leading Networking Solutions



### SWITCHES

From entry-level essentials to fully integrated cloud-managed switches, NETGEAR leads the way by offering the most innovative, comprehensive, scalable, and affordable switching portfolio to fit every business need.



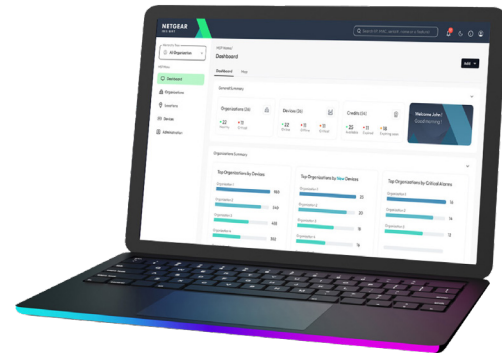
### WIRELESS ACCESS POINTS

Cover your growing business with secure, reliable, and blazing fast WiFi. From simple, affordable, DIY WiFi to large, industrial areas, the NETGEAR Enterprise robust line of wireless products will maximize any network's potential.



### ROUTER

The NETGEAR Pro Router is the perfect solution for modern businesses that demand always-on connectivity and effortless control from anywhere. It is designed with dual internet connections with automatic failover, advanced VPN support, and multi-gigabit ports to keep your network fast and reliable.



### MANAGEMENT SOFTWARE

NETGEAR Insight is removing the headaches and hassles of IT with the broadest, most cost-effective, and easily scalable network-deployment solution available for businesses. Insight puts a complete, unified network in the palm of your hand. It delivers peace of mind, knowing you can always monitor and control your network devices with ease... anytime, anywhere.



# WIRELESS



## Wireless Product Categories



### INSIGHT MANAGED

- Local or Remote management
- Wired installation with PoE
- Small and Medium businesses
- Advanced WiFi with roaming, load balancing
- Performance and coverage
- Multiple AP deployments



### Insight Managed Use Cases

**Schools** - support hybrid learning and administrative operations with centrally managed WiFi across classrooms, offices, and common areas

**Hotels** - high-speed WiFi throughout guest rooms, lobbies, and meeting spaces, with remote configuration and monitoring for multi-site properties

**Restaurants** - reliable, secure WiFi for staff operations and guest access—indoors or on the patio

**Conference centers** - ensure uninterrupted service for attendees and organizers during events



### BUSINESS ESSENTIALS

- Instant setup
- Single room usage
- Dual band equipped
- Great price/performance
- Separate guest access



### Business Essentials Use Cases

**Dedicated home office WiFi** - for those working permanently at home.

**Remote teaching** - from arithmetic to yoga, connecting tutors with pupils.

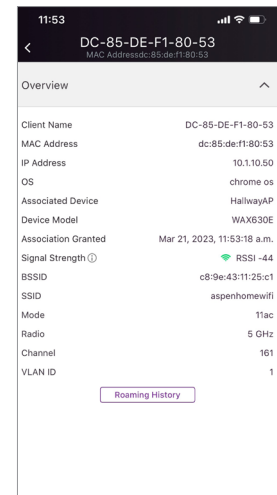
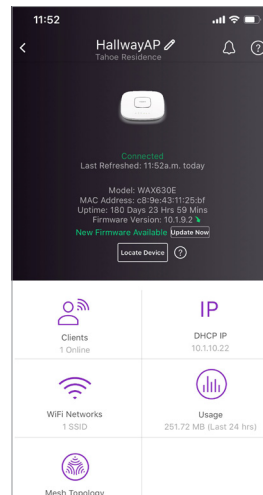
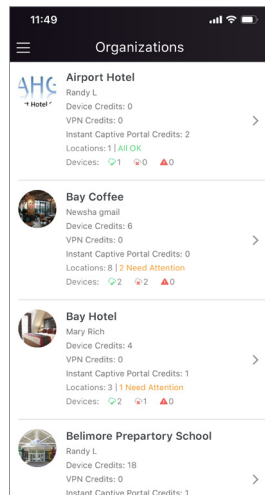
**College students' dorm rooms** - with guest access for work and entertainment.

**Small business and retail shops** - with distinctly separate customer-facing and back-office spaces within the same unit.

# Introducing One-Touch Wireless Visibility & Management

NETGEAR introduces the new IT revolution for small businesses with “one-touch connectivity” through our Insight Remote Management application. Experience easy set-up, remote management and full control of your wireless network. With nearly 30 years of experience in enterprise networking, NETGEAR is now delivering wireless connectivity that “just works” at your fingertips.

NETGEAR Insight enables multi-device configuration of your NETGEAR Insight Managed wireless access points, either locally or remotely. It provides network management, monitoring and service deployment across multiple remote and local sites for the easiest and most user-friendly wireless networking experience. Anywhere management also includes Insight Managed switches and Insight Managed Wireless Access points, enabling whole network visibility and management. Insight app also allows you to discover select wired and wireless devices from your local or remote network.





**WiFi 7**

- 5x faster speeds** than WiFi 6E
- 2x maximum bandwidth** 320MHz high-capacity channels
- 20% more data transmission** with 4096 QAM modulation

## WiFi 7

WiFi 7 delivers faster speeds (5x faster than WiFi 6E), lower latency, and more reliable connections with features like multi-band operation, wider channels, and smarter interference management—perfect for busy business environments. NETGEAR's WiFi 7 access points make it easy to deploy scalable, future-ready wireless networks. Backward compatible and built for the most demanding business needs, WiFi 7 sets a new standard for connectivity.

### WIFI 7 APPLICATIONS

Examples of wireless applications that benefit from WiFi 7's improved features:

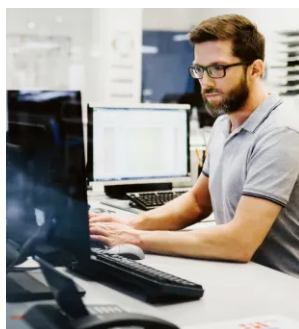
- Ultra high-speed demands – ideal for environments with heavy data use like 4K/8K streaming, AR/VR, and large file transfers
- WiFi 7 Devices – the latest smartphones, laptops with Intel BE200/BE202 chips, latest flagship Android devices, and upcoming AR/VR headsets
- Real-time applications – perfect for low-latency needs like video conferencing, cloud collaboration, and interactive experiences

## WiFi 7 For All Businesses



### EDUCATION

Modernize learning experiences with increased data transfer speed and ultra-low latency for students and staff.



### CORPORATE OFFICES

From warehouse to meeting rooms and cubicles, establish speedy connections for the whole office



### HOSPITALITY

Tackle congestion and interference in areas with densely packed devices or neighboring networks that overlap, such as in hotels or restaurants.



### RESIDENTIAL

Enjoy smoother high resolution content, including immersive AR and VR environments and gaming.

# Wireless Access Points

## Business Essentials



MODEL	WAX210
Product Description	Standalone WiFi 6 AX1800 Dual Band AP
Typical Deployment	Small offices, home business
Wireless Standard	802.11ax
Bands	Dual
2.4 GHz	Yes
5 GHz	Yes
6 GHz	No
TX by Rv	2x2
Throughput per Radio (Mbps)	600/1200
Max Clients (Standalone)	128
Max Clients (Managed)	256
Ethernet Ports	1
Port Speed	2.5 GbE
PoE	PoE+ (802.3af)
Antenna Type	Internal
Antenna Gain (dBi)	4.1 / 4.6
External Antenna Connectors	No
Enclosure Material	Plastic
Mounting Options	Wall, Ceiling
Max Power Consumption (W)	15.3
Deployment Options	Standalone
SSIDs	4
WEP	No
WPA2-PSK/AES	Yes
WPA3-Personal	Yes
802.1X	Yes
Rogue AP Detection	No
WIDS/WIPS	No
WDS	Yes
Repeater	Yes
Point-to-Point/Multi-Point	No
Simultaneous Bridge/Client Assoc.	No
Captive Portal	Yes
VLANs	Yes
MAC ACL	Yes
802.11e/WMM	Yes
Rate Limiting	Yes
Bandwidth Management	Yes
Beamforming	Yes
IPv6	Yes
Bandsteering	Yes
Warranty	5 years

# Wireless Access Points

## Insight Managed Access Points



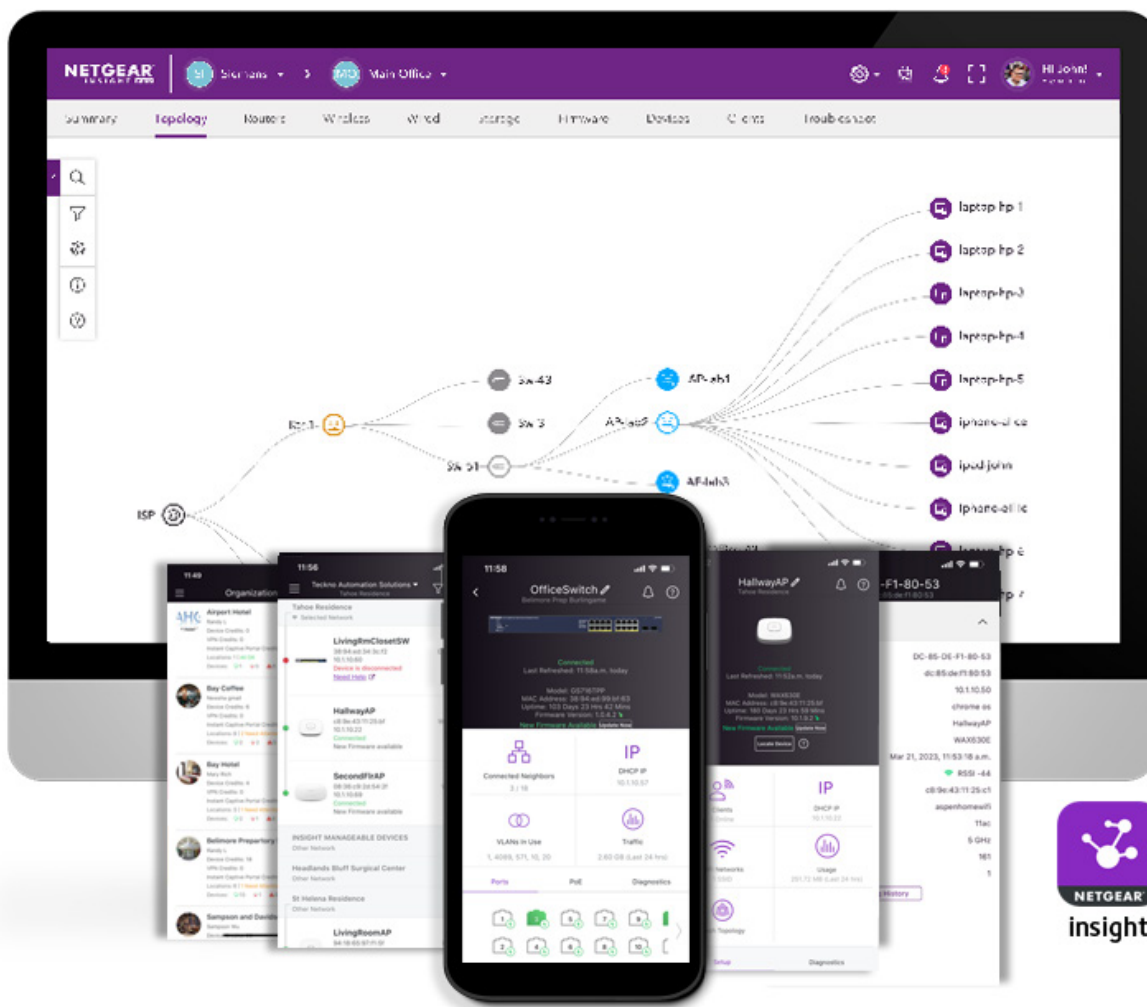
MODEL	WAX610	WAX610Y	WAX610W	WAX620
Product Description	Insight Managed WiFi 6 AX1800 Dual Band AP	Insight Managed WiFi 6 AX1800 Dual Band Outdoor PoE AP	Insight Managed WiFi 6 AX1800 Dual-band Gigabit PoE AP	Insight Managed WiFi 6 AX3600 Dual Band AP
Typical Deployment	Small to Mid-size	Outdoor - schools, hotels, SMEs	Small to Mid-size	Small to Mid-size
Wireless Standard	802.11ax	802.11ax	802.11ax	802.11ax
Bands	Dual	Dual	Dual	Dual
2.4 GHz	Yes	Yes	Yes	Yes
5 GHz	Yes	Yes	Yes	Yes
6 GHz	No	No	No	No
TX by Rv	2x2	2x2	2x2	4x4
Throughput per Radio (Mbps)	600/1200	600/1200	600/1200	1200/2400
Max Clients (Standalone)	30	30	30	75
Max Clients (Managed)	250	250	250	250
Ethernet Ports	1	1	5	1
Port Speed	100/1000/2500 Mbps	100/1000/2500 Mbps	10/100/1000 Mbps	100/1000/2500 Mbps
PoE	PoE+ (802.3at)	PoE+ (802.3at)	PoE+ (802.3at)	PoE+ (802.3at)
Antenna Type	Internal	Internal	Internal	Internal
Antenna Gain (dBi)	3.8/4.5	3.8/4.5	3.4/3.8	3.1/4.3
External Antenna Connectors	No	No	No	No
Enclosure Material	Plastic	Plastic	Plastic	Plastic Front/Metal Back
Mounting Options	Wall, Ceiling	Wall, Ceiling, Pole	Wall	Wall, Ceiling
Max Power Consumption (W)	15.3	16.1	20.19W	25.5
Deployment Options	Standalone/Insight	Standalone/Insight	Standalone/Insight	Standalone/Insight
SSIDs	8	8	8	8
WEP	No	No	No	No
WPA2-PSK/AES	Yes	Yes	Yes	Yes
WPA3-Personal	Yes	Yes	Yes	Yes
802.1X	Yes	Yes	Yes	Yes
Rogue AP Detection	No	No	No	No
WIDS/WIPS	No	No	No	No
WDS	Yes	Yes	Yes	Yes
Repeater	Yes	Yes	Yes	Yes
Point-to-Point/Multi-Point	Yes	Yes	Yes	Yes
Simultaneous Bridge/Client Assoc.	Yes	Yes	Yes	Yes
Captive Portal	Yes	Yes	Yes	Yes
VLANs	Yes	Yes	Yes	Yes
MAC ACL	Yes	Yes	Yes	Yes
802.11e/WMM	Yes	Yes	Yes	Yes
Rate Limiting	Yes	Yes	Yes	Yes
Bandwidth Management	Yes	Yes	Yes	Yes
Beamforming	Yes	Yes	Yes	Yes
IPv6	Yes	Yes	Yes	Yes
Bandsteering	Yes	Yes	Yes	Yes
Warranty	5 years	5 years	5 years	5 years

# Wireless Access Points

## Insight Managed Access Points



MODEL	WBE710	WBE750
Product Description	Insight Managed WiFi 7 AX9400 Tri-Band AP	Insight Managed WiFi 7 AX18400 Tri-Band AP
Typical Deployment	Small to Mid-size	Small to Enterprise
Wireless Standard	802.11be	802.11be
Bands	Tri	Tri
2.4 GHz	Yes	Yes
5 GHz	Yes	Yes
6 GHz	Yes	Yes
TX by Rv	4x4x4	4x4x4
Throughput per Radio (Mbps)	1147/4804/4804	1147/5760/11469
Max Clients (Standalone)	200	200
Max Clients (Managed)	600	600
Ethernet Ports	1	1
Port Speed	2.5 GbE	10 GbE
PoE	PoE+ (802.3af)	PoE++ (802.3bt)
Antenna Type	Internal	Internal
Antenna Gain (dBi)	3.45/5.39/5.49	4.4/6.3/3.1
External Antenna Connectors	No	No
Enclosure Material	Plastic Front/Metal Back	Plastic Front/Metal Back
Mounting Options	Wall, Ceiling	Wall, Ceiling
Max Power Consumption (W)	23.5	34
Deployment Options	Standalone/Insight	Standalone/Insight
SSIDs	8	8
WEP	No	No
WPA2-PSK/AES	Yes	Yes
WPA3-Personal	Yes	Yes
802.1X	Yes	Yes
Rogue AP Detection	No	No
WIDS/WIPS	No	No
WDS	Yes	Yes
Repeater	Yes	Yes
Point-to-Point/Multi-Point	Yes	Yes
Simultaneous Bridge/Client Assoc.	Yes	Yes
Captive Portal	Yes	Yes
VLANs	Yes	Yes
MAC ACL	Yes	Yes
802.11e/WMM	Yes	Yes
Rate Limiting	Yes	Yes
Bandwidth Management	Yes	Yes
Beamforming	Yes	Yes
IPv6	Yes	Yes
Bandsteering	Yes	Yes
Warranty	5 years	5 years

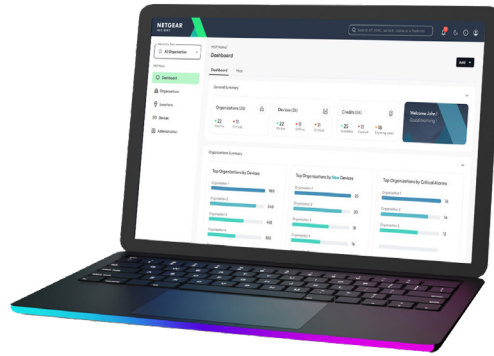


# NETGEAR Insight Cloud-Management Solution



## Insight Pro for Our Partners

Insight Pro is a Cloud platform that makes Network as a Service (NaaS) possible for our partners. NETGEAR now offers the possibility to have both hardware and services that you can manage, monitor 24/7, and provide support for customers.



## Ease of Use, Rich Features and Security



### MULTI-TENANCY & MULTI-LOCATION

- One Insight Pro account can centrally manage from a single view
- Roles & responsibilities definition



### WiFi ROAMING & CAPABILITIES

- Instant mesh setup for Access Points
- Instant WiFi
- Fast roaming & security
- Captive portal



### AUTOMATED DEPLOYMENT & UPDATES

- Firmware updates scheduling
- PoE Scheduling
- Network-level setting Save & Copy for speedy deployment of new network locations



### EASY CONFIGURATION & MANAGEMENT

- VLANs, LAGs, PoE, SNMP
- WiFi configuration
- Branded automated Custom Reporting specifically tailored for both internal users and end-customers
- Network Cloning



### REMOTE PROVISIONING

- Centralized device configuration
- PoE & port configuration
- Instant VPN to linkup branch offices and multi-sites and provide employees secure remote access

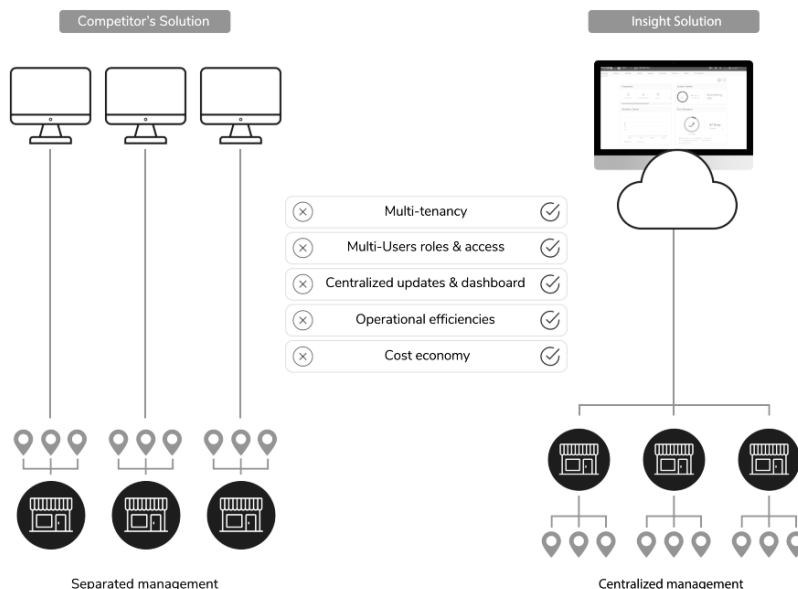


### ADVANCED SECURITY

- Two-factor authentication
- Cloud security

## Unique Efficient Multi-Tenant Model

Insight Pro is built for scalability and growth. With multi-location & multi-tenant capabilities you can easily set up all the networks for your customers and as an admin give everyone specific rights depending on their role (Manager, Owner).

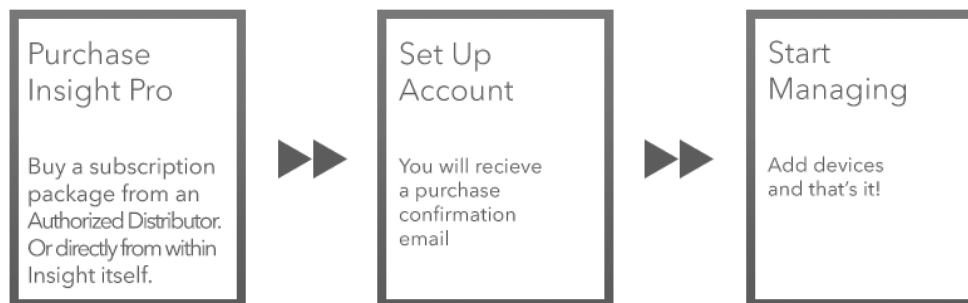


## Move to a Profitable Recurring Revenue Model

Leverage technology to set up 24x7 customer network monitoring & make up for lost hardware margins with increased service revenue

- Move to recurring revenue model to raise profitability
- Leverage cloud technology to reduce investment
- Automate & replicate low value, mundane tasks to increase efficiency and scale your business
- Get full visibility and proactively react on your customer networks to improve customer satisfaction and customer retention

## How it Works for VARS and MSPS



## NETGEAR Insight Services

Further enhance your network management with NETGEAR Insight advanced services covering guest WiFi, and security. Get the most of your network in the simplest and fastest way with NETGEAR Insight add-on services.

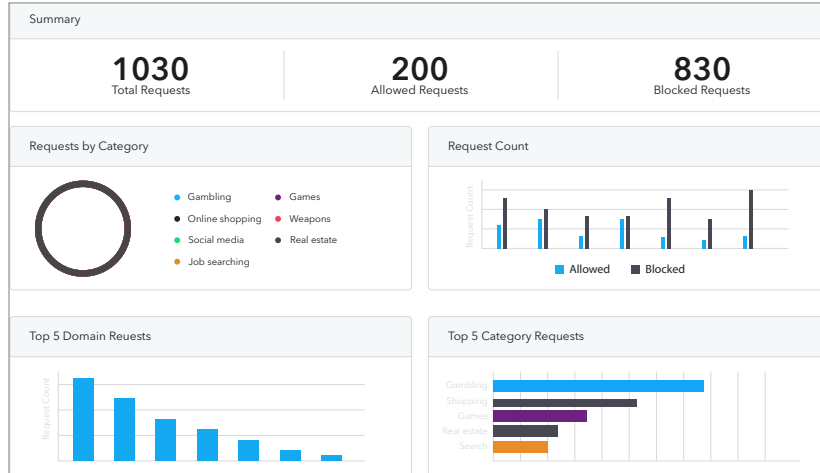
### Insight API

The Insight Cloud REST API is accessible to partners and MSPs, allowing you to utilize your own management tools seamlessly. Leverage the Insight Cloud REST APIs for automation purposes or to integrate into JAVA, JavaScript, GO, C#, Ruby, and PHP applications.

### NETGEAR Instant Captive Portal

According to consumer surveys, consumers expect WiFi access at any businesses where they spend over two minutes waiting for service. In exchange of providing free WiFi service, businesses can receive commercial value for owning customer information and having the ability to communicate and engage with customers directly with Instant Captive Portal.

Instant Captive Portal is an organized portal that enhances the business image, credibility and status, and thereby increase the registration and usage rate of the business' "public WiFi". Instant Captive Portal gives maximum flexibility to the business owners to customize the splash pages, based on their business characteristics and the desired outcome of the customer interaction through captive portal and receive real-time visitor data and analytic insights including name, email, demographic info, frequency of visits, etc.



NETGEAR Insight

US-Offices | MediumSMBofc...

Summary | Topology | Mobile | Routers | **Wireless** | Wired | Storage | Firmware | Devices | Clients | Troubleshoot

Wireless | FB-test

FB-test  
Status: Enabled | Band: Both

Settings | MAC ACL | **Captive Portal** | Rate Limit

Captive Portal lets you provide WiFi access to guests or other users. Purchase Instant Captive Portal for a full array of advanced features, including analytic capabilities, PayPal integrations, and voucher options, or enable free Basic Captive Portal, or Facebook Wi-Fi.

Instant Captive Portal  
Advanced WiFi guest portal offers vouchers, scheduling, and granular client analytics. Login modes include customized registration, plus Facebook, LinkedIn and Twitter.

Basic Captive Portal  
Native Insight guest WiFi with a link to your website. Offers marketing messaging, baseline usage data, and time limits for guest devices.

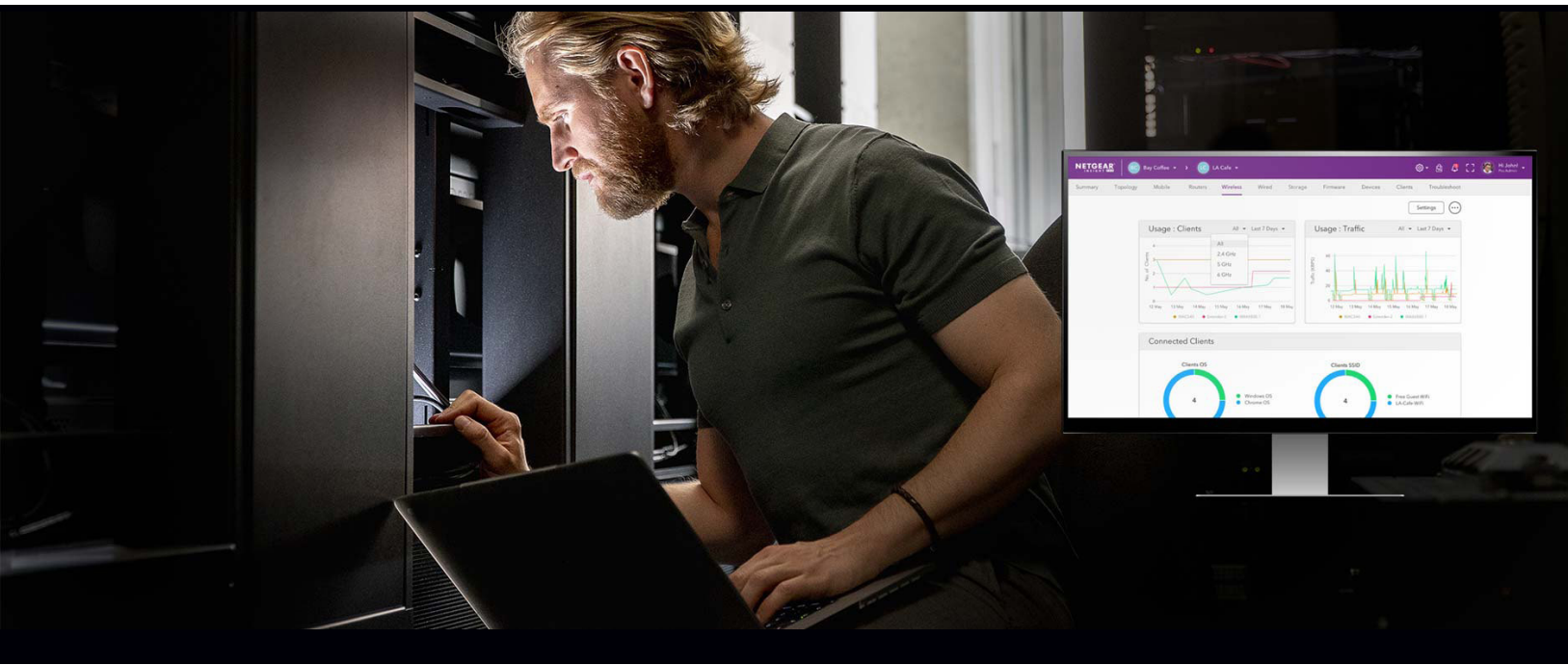
Facebook Wi-Fi  
Convenient Facebook login lets you leverage your Facebook page, marketing and customer engagement assets.

Splash Page Customization



# ROUTER





## End-to-End Excellence

Complete your networking ecosystem with the NETGEAR Total Network Solution. Combine the excellence and ingenuity of NETGEAR networking hardware with the power and ease of use of Insight Remote Cloud Management platform to build your complete solution.

### NETGEAR PR60X PRO ROUTER: 10G/MULTI-GIGABIT DUAL-WAN PRO ROUTER WITH INSIGHT CLOUD MANAGEMENT

The latest addition to our Total Network Solution. With Multi-Gig capabilities, a flexible SFP+ port and Dual-WAN failover protection, the PR60X provides affordable, uninterrupted connectivity 24/7.

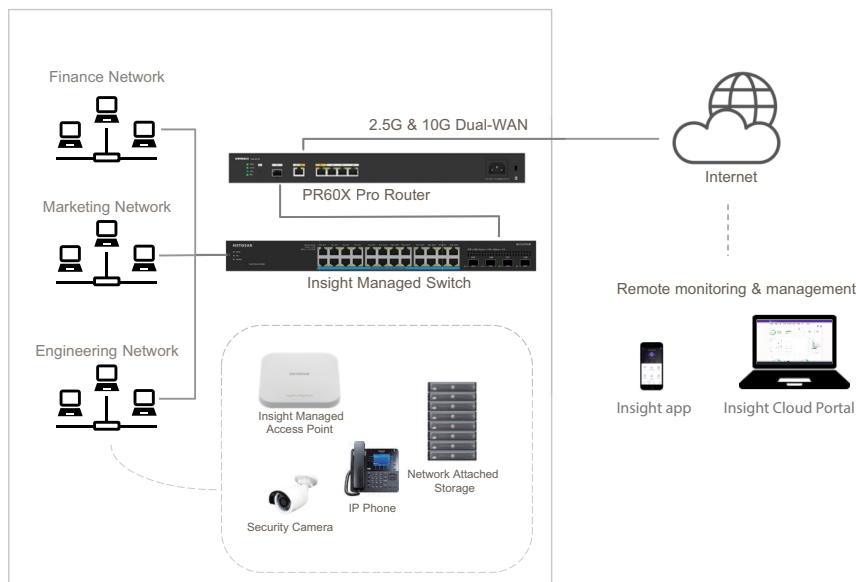


- 10G/Multi-Gigabit and 2.5G Dual-WAN ports with failover and load balancing
- High performance hardware with one 10G/Multi-Gigabit Ethernet port, four 2.5G Ethernet ports and one 10G SFP+ port for long-distance backhaul or connection to ISP fiber modem
- Seamless integration with NETGEAR Pro WiFi Access Points and select Smart switches through NETGEAR Insight Cloud Management
- Control, manage and monitor through NETGEAR Insight
- Rack-mountable for placement in industry-standard enclosures
- Firewall protection
- IPSec Site-to-Site/Client-to-Site VPN, OpenVPN and WireGuard to create secure VPN connections
- 3-year hardware warranty, 3-year next business day replacement, 90-day phone/chat support

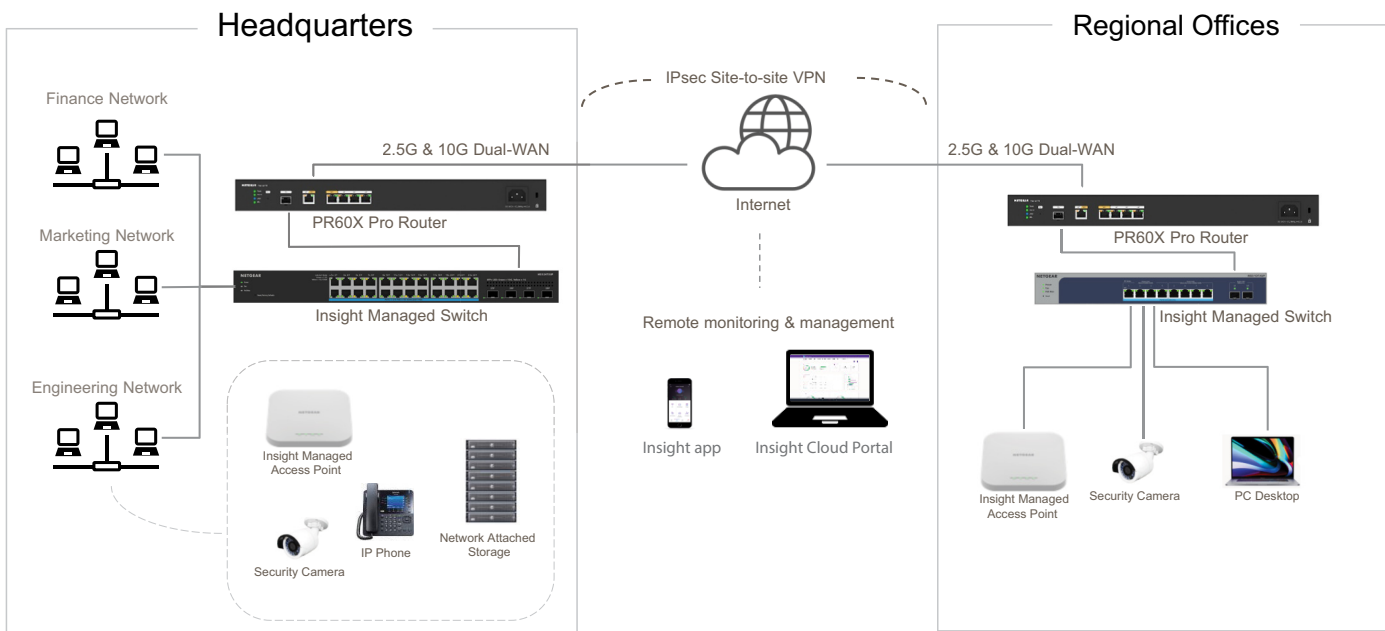


**TOTAL NETWORK  
SOLUTION**

## Small Office - IT Business PR60X



## Headquarters - Regional Offices - IT Business PR60X



## NETGEAR PR60X Pro Router Technical Specifications

FEATURES	PR60X
<b>Connectivity</b>	
Gigabit Ports WAN/LAN	1 x 10G/Multi-Gigabit Copper (Configurable LAN/WAN) 1 x 2.5G/1G RJ-45 (WAN) 3 x 2.5G/1G RJ-45 (LAN) 1 x 10G/1G SFP+ (LAN)
DMZ Interfaces (Configurable)	Yes
Dual WAN Failover	Yes
Dual WAN Load Balancing	Yes
<b>Performance</b>	
LAN-to-WAN Throughput	For 2.5G WAN port, LAN-to-WAN throughput is 2.4Gbps For 10G WAN port, LAN-to-WAN throughput is 9.4Gbps
Maximum Number of VLANs	32
Concurrent Connection Limit	60,000
Concurrent Client Limit	2,000
<b>Security</b>	
Firewall Functions	Firewall Traffic Rules/Scheduling, Port Forwarding, Port Triggering, Stateful Packet Inspection (SPI), Port/Service Blocking, Denial-of-service (DoS) Prevention, Stealth Mode, Block TCP Flood, Block UDP Flood, Respond To Ping on Internet Port
VoIP SIP ALG	Yes
<b>Networking</b>	
ISP Address Assignment	DHCP, Static IP Assignment, PPPoE
NAT Modes	NAT
Routing	Static, Dynamic, RIPv1, RIPv2
DHCP Server	32
Concurrent Clients	2,000
Concurrent Connections	60,000
VLANs (Up to 32)	802.1Q
Essential Networking Features	MAC Address Cloning/spoofing, NTP Support, UPnP, Auto Uplink on Switch Ports
QoS	Smart Queue Management
mDNS Gateway	Yes
Concurrent clients	Yes
Link Aggregation Group (LAG)	Yes
LLDP	Yes

## NETGEAR PR60X Pro Router Technical Specifications

VPN	
Maximum VPN Throughput	Site-to-Site 4.42 Gbps using 2.5G WAN; 8.92 Gbps using 10G WAN; Client-to-Site 500 Mbps
Protocol	IPSec Site-to-Site, IPSec Client-to-Site, OpenVPN Client-to-Site, WireGuard
IPsec Encryption/Authentication	3DES, AES (128, 192, 256 bit)/SHA-1, SHA-2 (256 bit), MD5
Key Exchange	IKEv1, IKEv2, Pre-shared Key
Access Modes	Remote access via Insight Remote Cloud Management
Management	
Management Options	Insight Remote Cloud Management
Logging	Accepted Packets, Dropped Packets Statistics, System, Source MAC filter, Session Limit, Bandwidth Limit, IPsec VPN
Log Delivery	Insight logging
Troubleshoot	Diagnostics Ping, DNS Lookup, Trace Route, Speed test
Maintenance	Save/Restore Configuration, Restore to Factory Defaults, Firmware Upgrades, Display and Monitor Statistics
Hardware	
Processor	Quad Core ARM A73 @ 2.2 GHz Packet Process Engine (PPE) processors
Flash Memory/RAM	2GB DDR4/4GB eMMC
Major Regulatory Compliance	Environment: RoHS Safety: CE/LVD, CSA EMI: FCC Part 15 Class B, CE mark
Temperatures	Operating Temperature: 0° - 40°C (32°-104° F) Storage Temperature: -20° - 70° C (-4° - 158° F)
Humidity	Operating humidity 90% maximum relative humidity, non-condensing Stor- age humidity 95% maximum relative humidity, non-condensing
Electrical Specifications	AC Input: 100-240V, 50/60Hz, 1.3A
Dimensions (W x D x H)	17.3x3.9x1.7in (440x100x43.2mm)
Weight	3.34lb (1.513kg)
System Requirements	Cable or DSL Broadband Modem, Internet Service, Windows Client Device, Internet Explorer/Firefox/Chrome/Safari Web Browser



# SWITCHING



# NETGEAR Features the Most Comprehensive, Scalable and Affordable Switching Portfolio

## UNMANAGED

Plug-and-Play switching for organizations in need of instant connectivity. No management required.

## EASY SMART MANAGED

Entry level management for essential services. Set priority for voice, video and other data traffic for enhanced service and performance.

## SMART MANAGED

For growing organizations needing more refined control, incorporating secure setup, access and automated management of prioritized voice, video and data traffic.

## SMART MANAGED CLOUD

All of the capabilities of our Smart switches with additional option to remotely manage/monitor using Insight Cloud management.

## FULLY MANAGED

For larger networks where granular control is required to minimize traffic congestion and performance bottlenecks, fully managed switches offer advanced control.

## Just Pick the Switch That's Best for You!

	UNMANAGED	EASY SMART MANAGED	SMART MANAGED SMART MANAGED CLOUD	FULLY MANAGED
Switching	L2			L2+/L3
1GbE (GS/GSM)	600 300 100 500 700	300 100 500	100 500 700	M4300 M4350 M4350
1GbE w/10G SFP+ (GS/GSM)	GSxxxX Series		GSxxxTXx Series	
1GbE w/10GbE	GSxxxMX Series			
Multi-gigabit/10GbE	MSxxx Series (2.5G)	MSxxxExx Series (2.5G)	MSxxxTxx Series (2.5G/5G/10G)	M4250
10GbE (w/10G SFP+, 28G SFP28)		XS Series (10G SFP+)	XS Series (10G SFP+)	M4300 (SFP28)
10GbE/Multi-gigabit (w/10G SFP+, 40G/100G QSFP28)	XSxxxM	XSxxxEM Series	XSxxxTM Series	M4350 (QSFP28)
100GbE				M4500
Management		Local GUI / NMS300***	Local GUI / Insight* / Smart Lite CLI** / NMS300***	Local GUI / Engage / CLI / Insight* / NMS300***

\* Insight cloud management available on Smart Managed Cloud models and select Fully Managed models.

\*\* Smart Lite CLI management available on select Smart Managed and Smart Managed Cloud models.

\*\*\* NMS300 has been EOL'd/sunsetted.

# Switch Naming Convention - How to read the product code

## Unmanaged and Easy Smart Managed

Speed Series Ports Management Uplinks Power

Example  
 Speed Series Ports Management Uplinks Power  
 GS 1 10 E MX

Speed		Series (See below for legend)		Ports	
GS/JGS Gigabit Ethernet		1 Series		05 Number of Ports	24
MS	Multi-gigabit Ethernet (1G/2.5G/5G, or 5-speed up to 10G)	2		08	28
XS	10-Gigabit Ethernet	3		10	48
		5		12	52
		7			
Management Type		Uplink Type		Power	
E Easy Smart Managed		X 10-Gigabit Uplinks		LP Low power PoE or PoE+	
Unmanaged		M Multi-gigabit Ethernet (5-speed, up to 10G) Uplinks (GS-Series) or all ports (XS-Series)		P PoE or PoE+	
		7		PP High power PoE or PoE+	
				UP Ultra PoE++	

## Smart Managed and Smart Managed Cloud Switches\*

Speed Series Ports Management Uplinks Power Stacking

Example  
 Speed Series Ports Management Uplinks Power Stacking  
 MS 5 10 T X UP

Speed		Series (See below for legend)		Ports	
GS Gigabit Ethernet		1 Series		05 Number of Ports	24
MS	Multi-gigabit Ethernet (1G/2.5G/5G, or 5-speed up to 10G)	2		08	28
XS	10-Gigabit Ethernet	3		10	48
		5		12	52
		7			
Management Type		Uplink Type		Power	
T Smart		X 10-Gigabit uplinks		LP Low power PoE	
		M Multi-gigabit Ethernet (5-speed, up to 10G) uplinks (GS-Series/MS-Series) or all ports (XS-Series)		P PoE or PoE+	
				PP High power PoE or PoE+	
				UP Ultra PoE++	
				S Hardware Stacking	
				Note: GS728TXv1/XPv1 & GS752TXv1/XPv1 are also stackable, but do not have "S" in product code.	

\*Note: Optional Remote/Cloud management available on Smart Managed Cloud switches and select Fully Managed Switches.

## Fully Managed Switches \*

Speed Management Family Ports Power Media Stacking

Example  
 Speed Management Family Ports Power Media Stacking  
 XS M 43 16 S

Speed		Management	Family	Ports		
GS Gigabit Ethernet		M Fully Managed	42 M4200, M4250	10 Number of Ports	24	48
MS	Multi-Gigabit Ethernet (1G/2.5G/5G, or 5 speed up to 10G)		43 M4300	12	28	52
XS	10-Gigabit Ethernet		45 M4500	14	30	56
CS	100-Gigabit Ethernet			16	32	96
Power		Media		Stacking		
P PoE+		C Copper		S Hardware Stacking		
U Ultra PoE++		F Fiber				
UP Ultra PoE++		X 10G Uplinks				

\*Note: Optional Remote/Cloud management available on Smart Managed Cloud switches and select Fully Managed Switches.

### Series Legend (for Unmanaged, Easy Smart Managed, and Smart Switches)

- 1 = Desktop (Metal)
- 2 = Desktop Essentials (Plastic)
- 3 = Desktop or Rackmount (depending on port count) Essentials (Metal)
- 5 = Desktop/Rack-mount (13" - 15") (Metal)
- 6 = 6 = Desktop Essentials Home/Retail (Plastic)
- 7 = Rackmount (17") (Metal)

# A Short Guide to NETGEAR Switches Management

## JUST PICK THE TYPE OF MANAGEMENT THAT IS RIGHT FOR YOU

	Unmanaged <small>FOR HOME AND BUSINESS</small>	Easy Smart Managed <small>FOR HOME AND BUSINESS</small>	Smart Managed <small>FOR SMB NETWORKS</small>	Smart Managed Cloud <small>FOR SMB NETWORKS</small>	Fully Managed <small>FOR SMALL NETWORK CORE, AV OVER IP, AND MID-ENTERPRISE EDGE</small>
Split a Single Ethernet Connection	●	●	●	●	●
Plug-and-Play	●	●	●	●	●
Easy to Use	●	●	●	●	●
Web GUI Management		●	●	●	●
Network Control (VLAN, QoS)		●	●	●	●
Network Security (Storm Control, Auto DoS)		●	●	●	●
Advanced VLAN & QoS		●	●	●	●
Advanced Security			●	●	●
Higher Performance			●	●	●
Static Routing			●	●	●
Advanced L2, L3, L4 Routing and Features			●	●	●
Insight Management**				●	●
Remote Cloud Management**				●	●
CLI Management*			●	●	●
API for Third-Party Control					●
BEST HA & Redundancy					●
Premium Performance					●

\* Smart Lite CLI management available on select Smart Managed and Smart Managed Cloud models.

\*\* Insight Cloud management available on select Fully Managed models.

# Power-over-Ethernet with NETGEAR®

## FROM WIRELESS ACCESS POINTS TO NETWORK SWITCHES, NETGEAR PROVIDES A RELIABLE, AFFORDABLE, SIMPLE POE SOLUTION FOR YOUR BUSINESS.

Power-over-Ethernet (PoE) is a revolutionary technology that is quickly being adopted by devices such as VoIP phones, IP video surveillance, and wireless access points. PoE supplies not only data but also power through that same Ethernet cable, allowing for easier deployment of devices and greatly reducing electrical wiring requirements.

Over time, multiple PoE classes were created to satisfy the power needs for different types of PoE devices.

**PoE:** Delivers 15.4W per port to power simple IP phones, IP cameras and wireless access points.

**PoE+:** Delivers 30W per port to power IP phones, WiFi 6 (802.11AX) access points, pan-tilt-zoom cameras, etc.

**PoE++:** PoE++ enables powerful installations with PoE budgets up to 60W or 90W per port for connections of higher power required devices, such as WiFi 6 (802.11AX) wireless access points, smart building lighting, audio speakers and pan-tilt-zoom cameras. Future proof with PoE++ and help prevent the slowing down of the WiFi 7 wireless access points.

**\*\*NETGEAR's exclusive FlexPoE allows you to increase the PoE budget of the switch simply by purchasing a larger Power Supply.**

PoE CLASS CHART				
PoE Class Chart	Min. power levels the PSE needs to provide	Min/Max power available to the PD <sup>2</sup>	Class Description	Powered Devices (PD)
0 <sup>1</sup>	0.44W	0.44W-12.95W	Default power (15.4W)	Any that don't specify their class
1	4.0W	0.44W-3.84W	Very low power	IP Phone
2	7.0W	3.84W-6.49W	Low power	IP Camera
3	15.4W	6.49W-12.95W	Mid power	Wireless Access Point, video phone
4 (PoE+)	30.0W	12.95W-25.50W	High power	PTZ IP camera, dual-band 11ac or 11AX Wireless AP
5/6 (PoE++)	60.0W	25.5W-51W <sup>3</sup>	Ultra high power	LED lighting, Audio Speakers, AV encoders, PTZ cameras, WiFi 6 (11AX) high-end Access Points
7/8 (PoE++)	90.0W	25.5W-71W <sup>3</sup>		

### Follow the P!

A P in the model name of NETGEAR unmanaged, easy smart managed, and smart managed switches is your guide to PoE!

We made these switches easy to find.

[www.netgear.com/poe](http://www.netgear.com/poe)

<sup>1</sup> Default if not specified by device

<sup>2</sup> The maximum power delivered to the device is affected by the length of the Ethernet cable between the switch and the device, which creates losses, hence the difference between the maximum power allocated for the device, and the maximum power delivered to the device.

<sup>3</sup> Extended power capability allows PD input power to reach up to 60W for Type 3 and up to 90W for Type 4 if channel length is known.

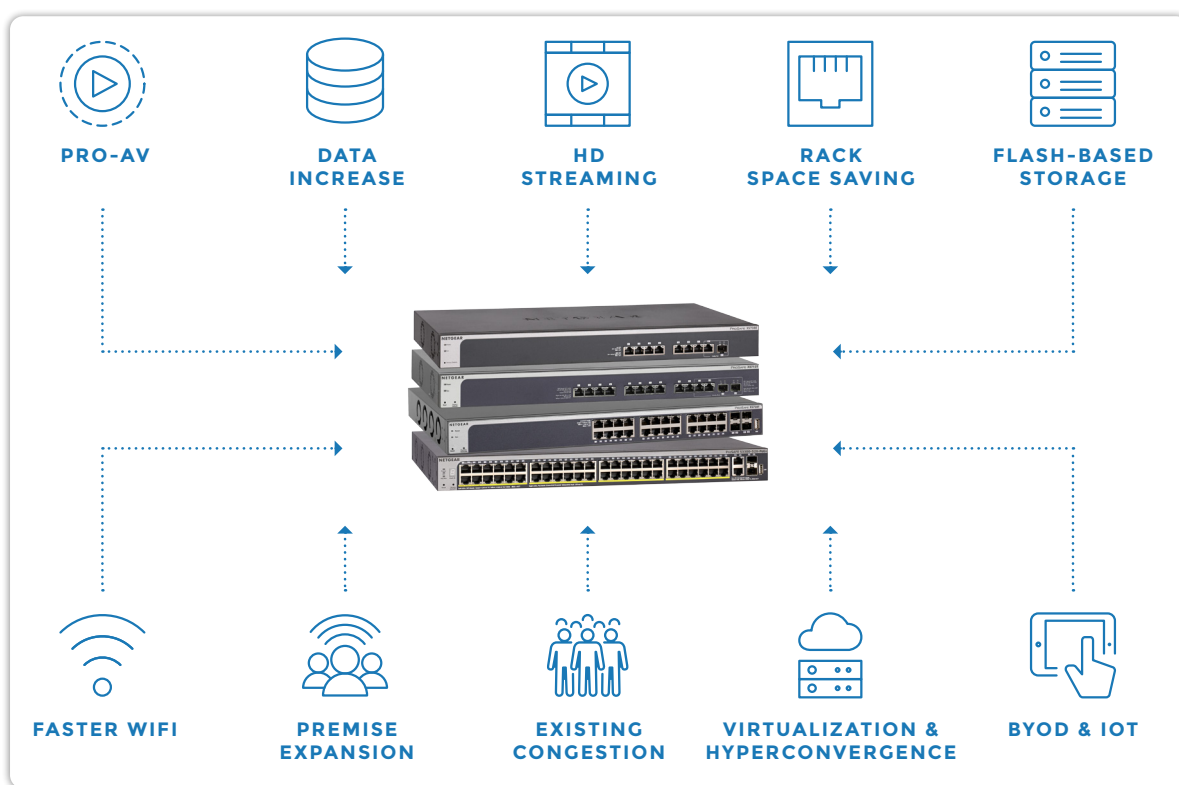
# Experience the Most Comprehensive and Affordable Full 10-Gigabit Business Switch Portfolio

**CONNECTIVITY MATTERS MORE EVERY DAY!**

Network connectivity is the new utility. As water runs out of the tap flawlessly, network data is expected to do the same. Users want to be able to connect with any device, anywhere and anytime with high quality, super-fast connections and no downtime.

## 10 drivers for 10-Gigabit networking

Modern applications, wireless device expansion and IT optimization are now moving 10-Gigabit connectivity to the top of Enterprise IT teams' priorities. The increase in mobility, voice and video combined with virtualization and the doubling of data every 2 years are some of the main drivers for bottlenecks that are occurring in parts of the network not previously seen with Gigabit connectivity. 10-Gigabit is the new Gigabit!



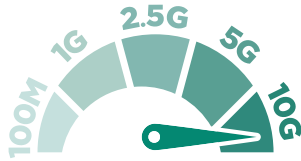
## NETGEAR 10-GIGABIT PORTFOLIO

NETGEAR is the leader in the 10-Gigabit Enterprise switch market with the most versatile and comprehensive offerings in the market at the most affordable price points. Enjoy the highest security and scalability, massive performance and absolutely no downtime with our high-end 10-Gigabit switches. NETGEAR has you covered with a uniquely comprehensive portfolio of highly flexible and scalable full 10-Gigabit switches that fit every business need. From 28 to 48 ports, featuring both copper and fiber options, 1U full width and 1U half-width (for more efficient use of rack space), NETGEAR is unrivaled in the choice it offers business customers looking for 10-Gigabit switching. The future of networking is now!

## FOLLOW THE X!

An X in the model name at NETGEAR is your guide to faster speed! An “X” at the beginning = Full 10-Gigabit connectivity! An “X” near the end = 10-Gigabit uplinks on switches. We made them easy to find.

## Unlock your network potential with 5-speed networking!



Modern, high-performance network devices such as 5G network cards, gaming computers, desktop computers, servers, network attached storage (NAS) devices, or IEEE 802.11ac Wave 2 wireless access points are capable of 2.5-Gigabit or 5-Gigabit connectivity. With the existing Gigabit and 10-Gigabit Ethernet standards, these devices' potential is wasted:

- The existing Gigabit and 10-Gigabit Ethernet standards do not allow speeds between 10 Gbps and 1 Gbps. If you connect an 802.11ac Wave 2 wireless access point or other Multi-Gigabit-capable device to a 10-Gigabit switch port, the connection automatically downgrades to 1 Gbps because the device cannot achieve 10 Gbps.
- The existing 10-Gigabit Ethernet standard requires Cat 6A or better Ethernet cable for lengths up to 100 meters (328 feet). However, most existing cabling is only Cat 5e or Cat 6, and re-wiring can be costly.

Multi-Gigabit Ethernet switches solve all these issues, supporting any device attached to the switch, to work at the speed of the port to which it is connected (2.5 Gbps or 5 Gbps). The maximum speed over Cat5e cabling is 5Gb, and 10Gb for Cat6 or better, with backwards-compatibility with 100Mbps and 1Gb. So, a business can easily mix and match different speeds on the same network, to make the most of each connected device's capability and without sacrificing the performance of either.

## Give the speed that your devices need

### 5 TIMES FASTER USING THE SAME CABLING

	1G	2.5G	5G	10G
CAT 5e	√	√	√	
CAT 6	√	√	√	55m Limit
CAT 6A	√	√	√	√

## Multi-Gig vs 5-speed, what is the difference?

**MULTI-GIG PORT:** intelligent port that automatically adapts to the speed required and can provide 100M/1G and 2.5G and/or 5G connectivity (NBASE-T standard)

**5-SPEED PORT:** intelligent port that automatically adapts to the speed required and can provide either one of the 5 networking speeds: 100M /1G / 2.5G / 5G or 10G.

# NETGEAR® AV

## Overview

NETGEAR's AV solutions are engineered specifically for broadcast IP and commercial AV over IP installations. In today's AV over IP world, the need for robust, reliable, and efficient network solutions is more critical than ever. NETGEAR's AV solutions span switching, routing, and WiFi with products delivering exceptional performance and reliability.

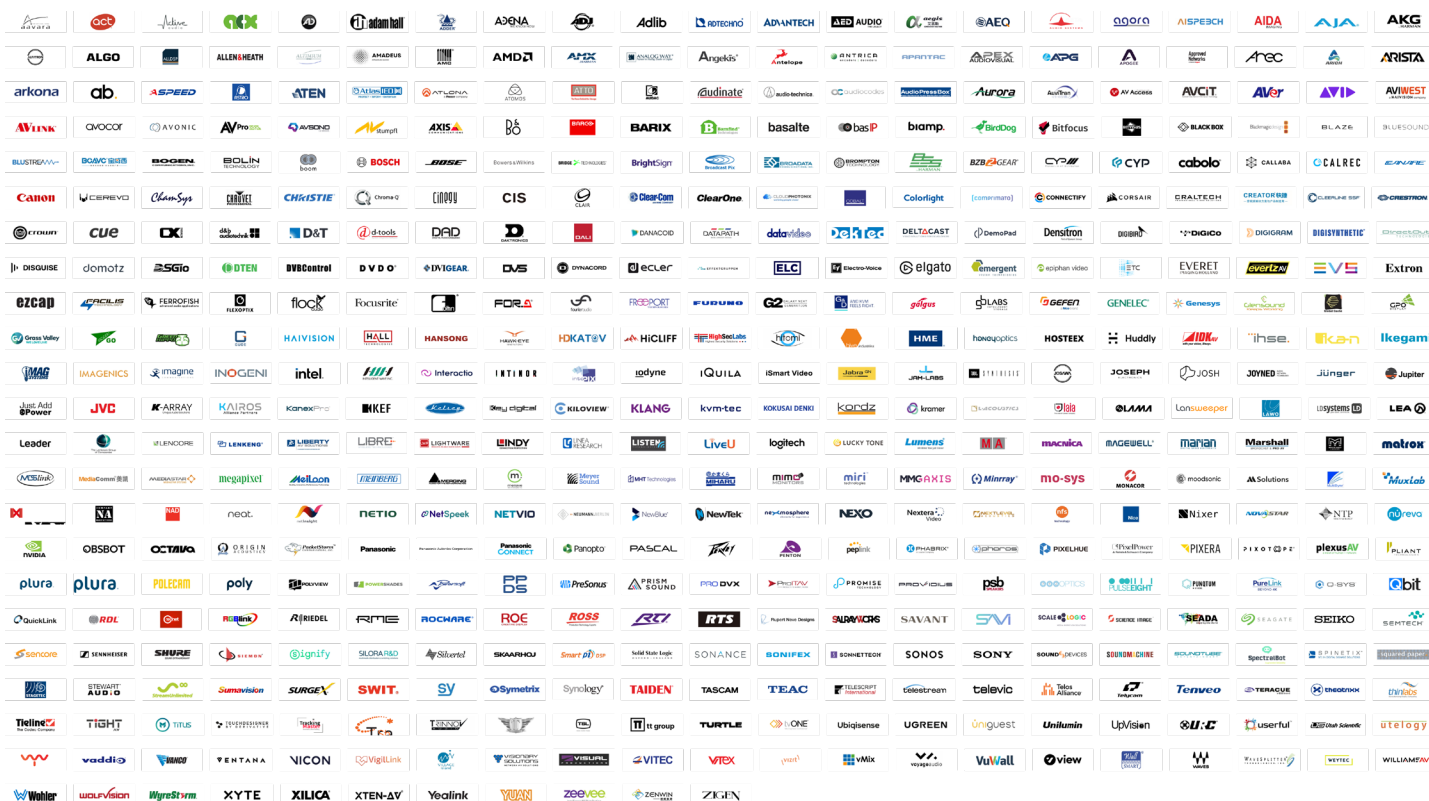
NETGEAR AV switches are optimized for AV over IP, featuring the unique NETGEAR AV OS™ built into each switch and also available as the free NETGEAR Engage™ software—making them the ideal choice for commercial, broadcast, and custom integration projects.

With nearly 500 Pro AV and Broadcast partners, no other switch manufacturer matches the ease of setup with certified profiles for virtually every audio, video, lighting, or control protocol in use today.

NETGEAR has also built global Pro AV and Broadcast design services teams with deep IT and AV expertise. From consultation to final implementation and beyond, these experts work closely with engineers to ensure every network infrastructure is fully optimized for performance and efficiency.

## CERTIFIED PARTNERS (PARTIAL LIST)

The following list of NETGEAR broadcast and Pro AV partners ensures your AV over IP installation will be successful. All of these partners work with us to make certain that our switches work with their products. Our Engineering Services team has worked with these manufacturers to provide you with peace of mind when it comes to your deployment.



# NETGEAR® AV

## FREE AV Network Design Services

NETGEAR offers free network design services to support partners as they design and deploy professional audio and video solutions which require IP networking infrastructure.

Our experts will help design the perfect commercial, broadcast, or custom integrated AV solution.



This includes:

### Product Recommendations

Get the right switches, access points, and router you need for your installation.

### Network Design

Guard against any on-site pitfalls with improper coverage, uplinks or switches.

### Troubleshooting

Solve any problems in the moment with a direct line to NETGEAR engineers.

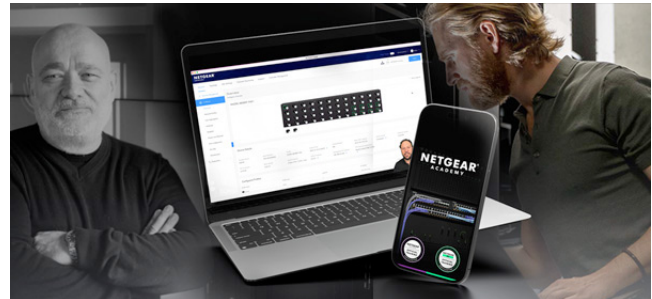
### Training & Support

Learn from the experts through pre-installation training, post-installation support and every solution in between.

Contact the Engineering Services team: [ProAVDesign@netgear.com](mailto:ProAVDesign@netgear.com)

# NETGEAR® ACADEMY

## Technical Training



At NETGEAR we believe in working with our integration partners and end users to empower them with the knowledge to be more self-sufficient. As part of this commitment, we offer free training courses at our online Academy.

From technical training on AV over IP topics to general business networking concepts, this Academy provides the skills you need to become better equipped for the challenges of today's world of networking.

**AV Certifications:** Master AV over IP, multicast, and troubleshooting to deploy and manage AV networks.

**Business Certifications:** Gain expertise in WiFi, cloud management, and NETGEAR Insight to optimize wireless networks.

Most courses offer valuable AVIXA Renewal Units and provide a Certificate of Completion for you to download.

Explore courses and signup:  
[www.academy.netgear.com](http://www.academy.netgear.com)

# Unmanaged Essentials

## Unmanaged, L2, Gigabit



MODEL		GS305V3	GS308V3	GS316V3	GS324V2	GS348
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	5	8	16	24	48
PoE (Power-over-Ethernet)	# of PoE Ports	-	-	-	-	-
	Power Over Ethernet 802.3af Ports	-	-	-	-	-
	PoE Plus (30W) 802.3at Ports	-	-	-	-	-
	Ultra60 PoE+ (60W) 802.3bt Ports	-	-	-	-	-
	Total PoE Budget	-	-	-	-	-
Scalability	# MAC Addresses	2K	8K	8K	8K	8K
	MAC Address Aging (sec)	300 sec	300 sec	300 – 450 sec	300 – 600 sec	300 sec
Quality of Service	Number of Priority Queues	4	4	8	4	8
	Traffic Prioritization	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS
Performance	Bandwidth	10 Gbps	16.0 Gbps	32 Gbps	48 Gbps	96 Gbps
	Buffer Memory	128 KB	128 KB	512 KB	512 KB	1500 KB
	Jumbo Frames	9K	9K	9K	9K	9K
Energy Efficiency	IEEE 802.3az	√	√	√	√	√
	Auto Port Power Down	√	√	√	√	√
	Max Power Consumption	2.15W	3.5W	8.1W	12W	23.5W
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount	Desktop, Wallmount	Desktop, Wallmount, Rackmount	Desktop, Wallmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal	Metal
	MTBF at 25°C	3,831,422 hrs (437 yrs)	3,711,898 hrs (424 yrs)	4,160,957 hrs (474 yrs)	1,016,877 hrs (116 yrs)	1,094,297 hrs (125 yrs)
	Fan(s)	None	None	None	None	None
	Width x Depth x Height	101 x 94 x 29 mm (4.0 x 3.7 x 1.1 in)	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4.0 x 1.1 in)	253 x 180 x 44 mm (9.9 x 7.1 x 1.7 in)	440 x 202 x 43 mm (17.3 x 8.0 x 1.7 in)
	Weight	0.25 kg (0.55 lb)	0.39 kg (0.86 lb)	0.89 kg (1.96 lb)	1.21 kg (2.67 lb)	3.15 kg (6.95 lb)
Electromagnetic Compliance	Class (A or B)	B	B	A	A	A
Warranty Hardware*		3 years	3 years	3 years	3 years	3 years
Warranty Power Supply		2 years	2 years	2 years	Internal (same as switch)	Internal (same as switch)
ProSupport Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMBOS11 PMBOS31 PMBOS51	PMBOS11 PMBOS31 PMBOS51	PMBOS12 PMBOS32 PMBOS52	PMBOS12 PMBOS32 PMBOS52	PMBOS12 PMBOS32 PMBOS52

# Unmanaged Essentials

## Unmanaged, L2, Gigabit, PoE

MODEL		GS305PV3	GS305PPV3	GS308LP	GS308PP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	5	5	8	8
PoE (Power-over-Ethernet)	# of PoE Ports	4	4	-	-
	Power Over Ethernet 802.3af Ports	4	4	-	-
	PoE Plus (30W) 802.3af Ports	4	4	8	8
	Ultra60 PoE++ (60W) 802.3bf Ports	-	-	-	-
	Total PoE Budget	63W	83W	60W	83W
Scalability	# MAC Addresses	2K	2K	4K	4K
	MAC Address Aging (sec)	300 sec	300 sec	300 sec	300 sec
Quality of Service	Number of Priority Queues	4	4	8	8
	Traffic Prioritization	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS
Performance	Bandwidth	10 Gbps	10 Gbps	16 Gbps	16 Gbps
	Buffer Memory	128 KB	128 KB	192 KB	192 KB
	Jumbo Frames	9K	9K	9K	9K
Energy Efficiency	IEEE 802.3az	√	√	√	√
	Auto Port Power Down	√	√	√	√
	Max Power Consumption	1.02W (no PoE) 66.78W (with PoE max)	1.01W (no PoE) 85.77W (with PoE max)	1.23W (no PoE) 67.5W (with PoE max)	3.86W (no PoE) 90W (with PoE max)
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount	Desktop, Wallmount	Desktop, Wallmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal
	MTBF at 25°C	4,113,947 hrs (469 yrs)	4,113,947 hrs (469 yrs)	2,752,476 hrs (314 yrs)	2,752,476 hrs (314 yrs)
	Fan(s)	None	None	None	None
	Width x Depth x Height	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	236 x 102 x 27 mm (9.3 x 4 x 1.1 in)	236 x 102 x 27 mm (9.3 x 4 x 1.1 in)
	Weight	0.40 kg (0.88 lb)	0.40 kg (0.88 lb)	0.6 kg (1.32 lb)	0.6 kg (1.32 lb)
Electromagnetic Compliance	Class (A or B)	B	B	A	A
Warranty Hardware*		3 years	3 years	3 years	3 years
Warranty Power Supply		2 years	2 years	2 years	2 years
ProSupport Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMBOS11 PMBOS31 PMBOS51	PMBOS11 PMBOS31 PMBOS51	PMBOS12 PMBOS32 PMBOS52	PMBOS12 PMBOS32 PMBOS52

# Unmanaged Essentials

## Unmanaged, L2, Gigabit, PoE

MODEL		GS316P	GS316PP	GS324P	GS348PP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	16	16	24	48
PoE (Power-over-Ethernet)	# of PoE Ports	-	-	-	-
	Power Over Ethernet 802.3af Ports	-	-	-	-
	PoE Plus (30W) 802.3at Ports	16	16	16	24
	Ultra60 PoE++ (60W) 802.3bt Ports	-	-	-	-
	Total PoE Budget	115W	183W	190W	380W
Scalability	# MAC Addresses	4K	4K	8K	8K
	MAC Address Aging (sec)	300 sec	300 sec	300 sec	300 sec
Quality of Service	Number of Priority Queues	8	8	4	8
	Traffic Prioritization	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS
Performance	Bandwidth	32 Gbps	32 Gbps	48 Gbps	96 Gbps
	Buffer Memory	1000 KB	1000 KB	192 KB	1.5MB
	Jumbo Frames	9K	9K	9.7K	12K
Energy Efficiency	IEEE 802.3az	√	√	√	√
	Auto Port Power Down	√	√	√	√
	Max Power Consumption	2.68W (no PoE) 127.9W (with PoE max)	2.67W (no PoE) 195.9W (with PoE max)	10W (no PoE) 210W (with PoE max)	10W (no PoE) 410W (with PoE max)
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount	Desktop, Rackmount	Desktop, Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal
	MTBF at 25°C	2,362,192 hrs (270 yrs)	2,362,192 hrs (270 yrs)	1,193,574 hrs (136 yrs)	570,972 hrs (65 yrs)
	Fan(s)	None	None	1 Fan	2 Fans
	Width x Depth x Height	286 x 102 x 27 mm (11.3 x 4 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4 x 1.1 in)	330 x 206 x 43 mm (13 x 8.1 x 1.7 in)	440 x 310 x 43 mm (17.3 x 12.2 x 1.7 in)
	Weight	0.88 kg (1.94 lb)	0.88 kg (1.94 lb)	2.44 kg (5.38 lb)	4.56 kg (10.05 lb)
Electromagnetic Compliance	Class (A or B)	A	A	A	A
Warranty Hardware*		3 years	3 years	3 years	3 years
Warranty Power Supply		2 years	2 years	Internal (same as switch)	Internal (same as switch)
ProSupport Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0512 PMB0532 PMB0552	PMB0512 PMB0532 PMB0552	PMB0312 PMB0332 PMB0352	PMB0312 PMB0332 PMB0352

# Unmanaged Essentials

## Unmanaged, L2, Gigabit, non-PoE



MODEL		GS105	GS108	GS116V3
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	5	8	16
PoE (Power-over-Ethernet)	# of PoE Ports	-	-	-
	Power Over Ethernet 802.3af Ports	-	-	-
	PoE Plus (30W) 802.3af Ports	-	-	-
	Ultra60 PoE++ (60W) 802.3bt Ports	-	-	-
	Total PoE Budget	-	-	-
Scalability	# MAC Addresses	2K	4K	8K
	MAC Address Aging (sec)	300 sec	300 sec	300 sec
Quality of Service	Number of Priority Queues	4	4	8
	Traffic Prioritization	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS
Performance	Bandwidth	10 Gbps	16 Gbps	32 Gbps
	Buffer Memory	128KB	192KB	512KB
	Jumbo Frames	9K	9K	9K
Energy Efficiency	IEEE 802.3az	√	√	√
	Auto Port Power Down	√	√	√
	Max Power Consumption	2.7W	4.9W	8.1W
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount	Desktop, Wallmount
	Metal/Plastic Enclosure	Metal	Metal	Metal
	MTBF at 25°C	3,197,945 hrs (365 yrs)	9,727,733 hrs (1110 yrs)	4,160,957 hrs (475 yrs)
	Fan(s)	None	None	None
	Width x Depth x Height	94 x 100 x 27 mm (3.7 x 3.9 x 1.1 in)	158 x 102 x 27 mm (6.2 x 4.0 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4 x 1.1 in)
	Weight	0.26 kg (0.57 lb)	0.47 kg (1.04 lb)	0.89 kg (1.96 lb)
Electromagnetic Compliance	Class (A or B)	B	B	A
Warranty Hardware*		Limited lifetime*	Limited lifetime*	Limited lifetime*
Warranty Power Supply		2 years	2 years	2 years
ProSupport Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMBOS11 PMBOS31 PMBOS51	PMBOS11 PMBOS31 PMBOS51	PMBOS12 PMBOS32 PMBOS52

# Unmanaged Essentials

## Unmanaged, L2, Gigabit, non-PoE



MODEL	GS516V3		GS524V3		GS748	
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	16	24	48		
PoE (Power-over-Ethernet)	# of PoE Ports	-	-	-	-	-
	Power Over Ethernet 802.3af Ports	-	-	-	-	-
	PoE Plus (30W) 802.3af Ports	-	-	-	-	-
	Ultra60 PoE++ (60W) 802.3bt Ports	-	-	-	-	-
	Total PoE Budget	-	-	-	-	-
Scalability	# MAC Addresses	8K	8K	8K	8K	8K
	MAC Address Aging (sec)	300 sec	300 sec	300 sec	300 sec	300 sec
Quality of Service	Number of Priority Queues	4	4	4	8	8
	Traffic Prioritization	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS
Performance	Bandwidth	32 Gbps	48 Gbps	48 Gbps	96 Gbps	96 Gbps
	Buffer Memory	512.5KB	512.5KB	512.5KB	1.5MB	1.5MB
	Jumbo Frames	9K	9K	9K	9K	9K
Energy Efficiency	IEEE 802.3az	√	√	√	√	√
	Auto Port Power Down	√	√	√	√	√
	Max Power Consumption	10W	12W	12W	8.81W	8.81W
Physical	Desktop/Rackmount/Click	Desktop, Wallmount, Rackmount	Desktop, Wallmount, Rackmount	Desktop, Wallmount, Rackmount	Desktop, Rackmount	Desktop, Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal	Metal
	MTBF at 25°C	1,397,962 hrs (159 yrs)	1,016,877 hrs (116 yrs)	1,016,877 hrs (116 yrs)	1,094,297 hrs (125 yrs)	1,094,297 hrs (125 yrs)
	Fan(s)	None	None	None	None	None
	Width x Depth x Height	328 x 169 x 43 mm (12.9 x 6.7 x 1.7 in)	328 x 169 x 43 mm (12.9 x 6.7 x 1.7 in)	328 x 169 x 43 mm (12.9 x 6.7 x 1.7 in)	440 x 204 x 43 mm (17.3 x 8 x 1.7 in)	440 x 204 x 43 mm (17.3 x 8 x 1.7 in)
	Weight	1.49 kg (3.3 lb)	1.47 kg (3.24 lb)	1.47 kg (3.24 lb)	3.15 kg (6.95 lb)	3.15 kg (6.95 lb)
Electromagnetic Compliance	Class (A or B)	A	A	A	A	A
Warranty Hardware*		Limited lifetime*	Limited lifetime*	Limited lifetime*	Limited lifetime*	Limited lifetime*
Warranty Power Supply		Internal (same as switch)	Internal (same as switch)	Internal (same as switch)	Internal (same as switch)	Internal (same as switch)
ProSupport Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0331 PMB0331 PMB0331	PMB0331 PMB0331 PMB0331	PMB0331 PMB0331 PMB0331	PMB0312 PMB0332 PMB0352	PMB0312 PMB0332 PMB0352

# Unmanaged Enterprise

## Unmanaged, L2, Gigabit, PoE



MODEL		GS105PV3	GS105PPV3	GS108LP	GS108PP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	5	5	8	8
PoE (Power-over-Ethernet)	# of PoE Ports	4	4	-	-
	Power Over Ethernet 802.3af Ports	4	4	-	-
	PoE Plus (30W) 802.3af Ports	4	4	8	8
	Ultra60 PoE++ (60W) 802.3bt Ports	-	-	-	-
	Total PoE Budget	63W	83W	60W	123W
Scalability	# MAC Addresses	2K	2K	4K	4K
	MAC Address Aging (sec)	300 sec	300 sec	300 sec	300 sec
Quality of Service	Number of Priority Queues	4	4	8	8
	Traffic Prioritization	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS
Performance	Bandwidth	10 Gbps	10 Gbps	16 Gbps	16 Gbps
	Buffer Memory	128KB	128KB	192KB	192KB
	Jumbo Frames	9K	9K	9K	9K
Energy Efficiency	IEEE 802.3az	√	√	√	√
	Auto Port Power Down	√	√	√	√
	Max Power Consumption	67.5W	90W	67.5W	130W
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount	Desktop, Wallmount, Rackmount	Desktop, Wallmount, Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal
	MTBF at 25°C	4,113,947 hrs (469 yrs)	4,113,947 hrs (469 yrs)	2,752,476 hrs (314 yrs)	2,752,476 hrs (314 yrs)
	Fan(s)	None	None	None	None
	Width x Depth x Height	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	236 x 102 x 27 mm (9.3 x 4.0 x 1.1 in)	236 x 102 x 27 mm (9.3 x 4.0 x 1.1 in)
	Weight	0.40 kg (0.88 lb)	0.40 kg (0.88 lb)	0.6 kg (1.32 lb)	0.6 kg (1.32 lb)
Electromagnetic Compliance	Class (A or B)	B	B	A	A
Warranty Hardware*		Limited lifetime*	Limited lifetime*	Limited lifetime*	Limited lifetime*
Warranty Power Supply		2 years	2 years	2 years	2 years
ProSupport Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMBOS12 PMBOS32 PMBOS52	PMBOS12 PMBOS32 PMBOS52	PMBOS12 PMBOS32 PMBOS52	PMBOS12 PMBOS32 PMBOS52

# Unmanaged Enterprise

Unmanaged, L2, Gigabit, PoE



MODEL		GS116LP	GS116PP	GS516PP	GS516UP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	16	16	16	16
PoE (Power-over-Ethernet)	# of PoE Ports	-	-	-	-
	Power Over Ethernet 802.3af Ports	-	-	-	-
	PoE Plus (30W) 802.3af Ports	16	16	16	8
	Ultra60 PoE++ (60W) 802.3bt Ports	-	-	-	8
	Total PoE Budget	76W	183W	260W	380W
Scalability	# MAC Addresses	4K	4K	8K	8K
	MAC Address Aging (sec)	300 sec	300 sec	300 sec	300 sec
Quality of Service	Number of Priority Queues	8	8	4	4
	Traffic Prioritization	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS
Performance	Bandwidth	32 Gbps	32 Gbps	32 Gbps	32 Gbps
	Buffer Memory	1MB	1MB	192KB	192KB
	Jumbo Frames	9K	9K	9K	9K
Energy Efficiency	IEEE 802.3az	√	√	√	√
	Auto Port Power Down	√	√	√	√
	Max Power Consumption	90W	200W	316.1W	456.8W
Physical	Desktop/Rackmount/Click	Desktop, Wallmount, Rackmount	Desktop, Wallmount, Rackmount	Desktop, Rackmount	Desktop, Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal
	MTBF at 25°C	2,362,192 hrs (270 yrs)	2,362,192 hrs (270 yrs)	2,415,334 hrs (276 yrs)	1,213,791 hrs (139 yrs)
	Fan(s)	None	None	2 Fans	3 Fans
	Width x Depth x Height	286 x 102 x 27 mm (11.3 x 4.0 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4.0 x 1.1 in)	330 x 207 x 43 mm (13.0 x 8.1 x 1.7 in)	330 x 207 x 43 mm (13.0 x 8.1 x 1.7 in)
	Weight	0.88 kg (1.94 lb)	0.88 kg (1.94 lb)	2.30 kg (5.07 lb)	2.60 kg (5.73 lb)
Electromagnetic Compliance	Class (A or B)	A	A	A	A
Warranty Hardware*		Limited lifetime*	Limited lifetime*	Limited lifetime*	Limited lifetime*
Warranty Power Supply		2 years	2 years	Internal (same as switch)	Internal (same as switch)
ProSupport Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0512 PMB0532 PMB0552	PMB0512 PMB0532 PMB0552	PMB0312 PMB0332 PMB0352	PMB0312 PMB0332 PMB0352

# Unmanaged Enterprise

## Unmanaged, L2, Gigabit, PoE



MODEL		GS524PP	GS524UP	GS748PP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	24	24	48
PoE (Power-over-Ethernet)	# of PoE Ports	-	-	-
	Power Over Ethernet 802.3af Ports	-	-	-
	PoE Plus (30W) 802.3af Ports	24	8	24
	Ultra60 PoE++ (60W) 802.3bt Ports	-	16	-
	Total PoE Budget	300W	480W	380W
Scalability	# MAC Addresses	8K	8K	8K
	MAC Address Aging (sec)	300 sec	300 sec	300 sec
Quality of Service	Number of Priority Queues	4	4	8
	Traffic Prioritization	802.1p based QoS/CoS	802.1p based QoS/CoS	802.1p based QoS/CoS
Performance	Bandwidth	48 Gbps	48 Gbps	96 Gbps
	Buffer Memory	192KB	192KB	1.5MB
	Jumbo Frames	9K	9K	12.8K
Energy Efficiency	IEEE 802.3az	√	√	√
	Auto Port Power Down	√	√	√
	Max Power Consumption	359.5W	578.8W	410W
Physical	Desktop/Rackmount/Click	Desktop, Rackmount	Desktop, Rackmount	Desktop, Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal
	MTBF at 25°C	1,457,063 hrs (166 yrs)	809,853 hrs (92 yrs)	570,972 hrs (65 yrs)
	Fan(s)	2 Fans	2 Fans	2 Fans
	Width x Depth x Height	390 x 220 x 43 mm (15.4 x 8.7 x 1.7 in)	390 x 220 x 43 mm (15.4 x 8.7 x 1.7 in)	440 x 310 x 43 mm (17.3 x 12.2 x 1.7 in)
	Weight	2.89 kg (6.37 lb)	3.10 kg (6.83 lb)	4.56 kg (10.05 lb)
Electromagnetic Compliance	Class (A or B)	A	A	A
Warranty Hardware*		Limited lifetime*	Limited lifetime*	Limited lifetime*
Warranty Power Supply		Internal (same as switch)	Internal (same as switch)	Internal (same as switch)
ProSupport Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0312 PMB0332 PMB0352	PMB0312 PMB0332 PMB0352	PMB0312 PMB0332 PMB0352

# Unmanaged Multi-Gigabit

Unmanaged, L2, 10G/Multi-Gig Switches

Unmanaged, L2, Multi-Gig : PoE



MODEL		GS108X	GS108MX	MS108UP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	8	8	
	1G/2.5GBASE-T RJ45 Copper Ports (Auto Uplink)			8
	100M/1G/2.5G/5G/10G RJ45 Copper Ports (Auto Uplink)		1	
	10G SFP+ Fiber Ports	1		
PoE (Power-over-Ethernet)	# of PoE ports			
	PoE+ (30W) 802.3at Ports			8
	Ultra60 PoE+ (60W) 802.3bt Type3 Ports			4
	Total PoE Budget			230W
Scalability	# MAC Addresses	16K	16K	16K
	MAC Address Aging (typical, sec)	300s-600 sec	300s-600 sec	300 sec
Quality of Service	802.1p-based QoS/CoS	√	√	√
Performance	Total Bandwidth (Non-Blocking Fabric) (Gbps)	36Gb	36Gb	40 Gbps
	Buffer Memory (Packet Buffer Size)	768KB	768KB	1.5MB
	Jumbo Frames	9K	9K	12K
Energy Efficiency	IEEE 802.3az	√	√	√
	Auto Port Power Down	√	√	√
	Short Cable Detection/Power Saving	√	√	√
	Max Power Consumption	5.7W	5.8W	16.58W(no PoE) 270.5W(with PoE MAX)
Physical	Desktop/Rackmount/Wallmount	Desktop/Wallmount	Desktop/Wallmount	Desktop, Wallmount
	Metal/Plastic Enclosure	Metal	Metal	Metal
	Fan(s)	none	none	None
	Acoustic Noise at 25°C	0 db	0 db	0 dB
	MTBF at 25°C	4,802,599 hrs (547.88 yrs)	3,514,690 hrs (401 yrs)	373643.7 hrs (42.62 yrs)
	Width x Depth x Height	236 x 102 x 27 mm (9.3 x 4.0 x 1.1in)	236 x 102 x 27 mm (9.3 x 4.0 x 1.1in)	210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)
	Weight	0.575kg (1.27 lb)	0.575kg (1.27 lb)	0.90 kg (1.98 lb)
Electromagnetic Compliance	(Class A or B)	B	B	B
Warranty	Hardware/Switch	Lifetime* Limited	Lifetime* Limited	Lifetime* Limited
	Power Supply	2 years	2 years	2 years
Modules		AGM731F AGM732F AGM734 AXC761 AXC763 AXM761 AXM762 AXM764	AGM731F AGM732F AGM734 AXC761 AXC763 AXM761 AXM762 AXM764	
ProSupport Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0S12 PMB0S32 PMB0S52	PMB0S12 PMB0S32 PMB0S52	PMB0312 PMB0332 PMB0352

# Unmanaged 2.5G/Multi-Gigabit

## Unmanaged, L2, Multi-Gigabit : Non-PoE



MODEL		MS105	MS305	MS308
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)			
	1G/2.5GBASE-T RJ45 Copper Ports (Auto Uplink)	5	5	8
	100M/1G/2.5G/5G/10G RJ45 Copper Ports (Auto Uplink)			
	10G SFP+ Fiber Ports			
PoE (Power-over-Ethernet)	# of PoE ports			
	PoE+ (30W) 802.3at Ports			
	Ultra60 PoE++ (60W) 802.3bt Type3 Ports			
	Total PoE Budget			
Scalability	# MAC Addresses	16K	16K	4K
	MAC Address Aging (typical, sec)	300-600 sec	300-600 sec	300-600 sec
Quality of Service	802.1p-based QoS/CoS	√	√	√
Performance	Total Bandwidth (Non-Blocking Fabric) (Gbps)	25 Gbps	25 Gbps	40 Gbps
	Buffer Memory (Packet Buffer Size)	1MB	1MB	1MB
	Jumbo Frames	9K	9K	12K
Energy Efficiency	IEEE 802.3az	√	√	√
	Auto Port Power Down	√	√	√
	Short Cable Detection/Power Saving	√	√	
	Max Power Consumption	9.24W	9.24W	6.75W
Physical	Desktop/Rackmount/Wallmount	Desktop/Wallmount	Desktop/Wallmount	Desktop/Wallmount
	Metal/Plastic Enclosure	Metal	Metal	Metal
	Fan(s)	None	None	None
	Acoustic Noise at 25°C	0dB	0dB	0dB
	MTBF at 25°C	1,401,743 hrs (160 yrs)	1,401,743 hrs (160 yrs)	3,414,473 hrs (389.8 yrs)
	Width x Depth x Height	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)
	Weight	0.48 kg (1.06 lb)	0.48 kg (1.06 lb)	0.48 kg (1.06 lb)
Electromagnetic Compliance	(Class A or B)	B	B	B
Warranty	Hardware/Switch	Lifetime* Limited	3 years	3 years
	Power Supply	2 years	2 years	2 years
Modules				
ProSupport Maintenance Contracts***	OnCall 24x7 1-year	PMBOS12	PMBOS12	PMBOS12
	OnCall 24x7 3-year	PMBOS32	PMBOS32	PMBOS32
	OnCall 24x7 5-year	PMBOS52	PMBOS52	PMBOS52

# Unmanaged 10G/Multi-Gigabit

Unmanaged, L2, 10G/Multi-Gigabit : Non-PoE



MODEL		XS505M	XS508M
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)		
	1G/2.5GBASE-T RJ45 Copper Ports (Auto Uplink)		
	100M/1G/2.5G/5G/10G RJ45 Copper Ports (Auto Uplink)	4	8
	10G SFP+ Fiber Ports	1 SFP+ (dedicated)	1 Combo SFP+ (10G)
PoE (Power-over-Ethernet)	# of PoE ports		
	PoE+ (30W) 802.3at Ports		
	Ultra60 PoE+ (60W) 802.3bt Type3 Ports		
	Total PoE Budget		
Scalability	# MAC Addresses	2K	2K
	MAC Address Aging (typical, sec)	300 sec	300 sec
Quality of Service	802.Ip-based QoS/CoS	√	√
Performance	Total Bandwidth (Non-Blocking Fabric) (Gbps)	100 Gbps	160 Gbps
	Buffer Memory (Packet Buffer Size)	128 KB	128 KB
	Jumbo Frames	9K	9K
Energy Efficiency	IEEE 802.3az	√	√
	Auto Port Power Down	√	√
	Short Cable Detection/Power Saving	√	√
	Max Power Consumption	22.5W	39W
Physical	Desktop/Rackmount/Wallmount	Desktop/Wallmount	Desktop/Wallmount
	Metal/Plastic Enclosure	Metal	Metal
	Fan(s)	1	1
	Acoustic Noise at 25°C	28.8dB	28.8dB
	MTBF at 25°C	1,093,237 hrs (125 yrs)	1,145,157 hrs (131 yrs)
	Width x Depth x Height	328 x 169 x 43 mm (12.9 x 6.7 x 1.7 in)	328 x 169 x 43 mm (12.9 x 6.7 x 1.7 in)
	Weight	1.38 kg (3.04 lb)	1.49 kg (3.28 lb)
Electromagnetic Compliance	(Class A or B)	B	B
Warranty	Hardware/Switch	Lifetime* Limited	Lifetime* Limited
	Power Supply	Internal (same as switch)	Internal (same as switch)
Modules		AFM735 AGM731 AGM732F AGM734 AXC761 AXC763 AXM761 AXM762 AXM763 AXM764	AFM735 AGM731 AGM732F AGM734 AXC761 AXC763 AXM761 AXM762 AXM763 AXM764
ProSupport Maintenance Contracts***	OnCall 24x7 1-year	PMB0311	PMB0311
	OnCall 24x7 3-year	PMB0331	PMB0331
	OnCall 24x7 5-year	PMB0351	PMB0351

# Easy Smart Managed Essentials




## Easy Smart Managed, L2, Gigabit non-PoE



MODEL		GS305EV2	GS308EV4
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	5	8
	SFP Fiber Ports		
PoE (Power-over-Ethernet)	PoE + (30W) 802.3at Ports		
	Total PoE Budget		
Scalability	# MAC Addresses	2K	4K
	Dynamic MAC	√	√
System Management	Single IP Management	√	√
	Web Managed/GUI	√	√
	DHCP (Client/Server)	DHCP Client	DHCP Client
	Port Mirroring	One-to-One	Many-to-One
Quality of Service	Number of Priority Queues	4	4
	Traffic Prioritization	802.1p, Port-based and DSCP	802.1p, Port-based (CoS)
	Auto Voice VLAN		
Multicast Filtering	IGMP Snooping Version	v1, v2 and v3	v1, v2 and v3
Performance	Bandwidth	10 Gbps	16 Gbps
	Buffer Memory	1Mbit	1.5Mb
	Jumbo Frames	9216 bytes	9216 bytes
Traffic Management	Number of 802.1q VLAN/ Number of VLAN Group	64	64
	Port Trunking/Link Aggregation (Manual Static LAGs)		Static LAG
	Rate Limiting	√	√
	Broadcast Storm Control	√	√
Energy Efficiency	IEEE 802.3az	√	√
	Auto Port Power Down	√	√
	Dynamic Power Consumption		
	Max Power Consumption	2.6W	3.7W
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount
	Metal/Plastic Enclosure	Metal	Metal
	MTBF at 25°C	2,531,294 hrs (289 yrs)	2,467,739 hrs (282 yrs)
	Fan(s)	None	None
	Acoustic Noise at 25°C	0dB	0dB
	Width x Depth x Height	94 x 100 x 27 mm (3.7 x 3.9 x 1.1 in)	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)
	Weight	0.25 kg (0.55 lb)	0.50 kg (1.10 lb)
Electromagnetic Compliance	(Class A or B)	B	B
Warranty Hardware*		5-year warranty	5-year warranty
Warranty Power Supply			
Modules			
ProSUPPORT Maintenance Contracts***		PMB0511-100005 PMB0531-100005 PMB0551-100005	PMB0511-100005 PMB0531-100005 PMB0551-100005

# Easy Smart Managed Essentials

## Easy Smart Managed, L2, Gigabit PoE

				
MODEL		GS305EP	GS305EPP	GS308EP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	5	5	8
	SFP Fiber Ports			
PoE (Power-over-Ethernet)	PoE + (30W) 802.3at Ports	4	4	8
	Total PoE Budget	63W	120W	62W
Scalability	# MAC Addresses	2K	2K	4K
	Dynamic MAC	√	√	√
System Management	Single IP Management	√	√	√
	Web Managed/GUI	√	√	√
	DHCP (Client/Server)	DHCP Client	DHCP Client	DHCP Client
	Port Mirroring	One-to-One	One-to-One	One-to-One
Quality of Service	Number of Priority Queues	4	4	4
	Traffic Prioritization	802.1p, Port-based and DSCP	802.1p, Port-based and DSCP	802.1p, Port-based and DSCP
	Auto Voice VLAN			
Multicast Filtering	IGMP Snooping Version	v1, v2 and v3	v1, v2 and v3	v1, v2 and v3
Performance	Bandwidth	10 Gbps	10 Gbps	16 Gbps
	Buffer Memory	1Mbit	1Mbit	1.5Mbit
	Jumbo Frames	9216 bytes	9216 bytes	9216 bytes
Traffic Management	Number of 802.1q VLAN/ Number of VLAN Group	64	64	64
	Port Trunking/Link Aggregation (Manual Static LAGs)	Static LAG	Static LAG	Static LAG
	Rate Limiting	√	√	√
	Broadcast Storm Control	√	√	√
Energy Efficiency	IEEE 802.3az	√	√	√
	Auto Port Power Down	√	√	√
	Dynamic Power Consumption	√	√	√
	Max Power Consumption	4.9W (no PoE) 74.4W (with PoE max)	4.5W (no PoE) 137.8W (with PoE max)	6.0W (no PoE) 74.7W (with PoE max)
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount	Desktop, Wallmount
	Metal/Plastic Enclosure	Metal	Metal	Metal
	MTBF at 25°C	1,164,104 hrs (133 yrs)	853,770 hrs (97 yrs)	859,126 hrs (98 yrs)
	Fan(s)	None	None	None
	Acoustic Noise at 25°C	0dB	0dB	0dB
	Width x Depth x Height	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)
	Weight	0.39 kg (0.86 lb)	0.40 kg (0.88 lb)	0.49 kg (1.08 lb)
Electromagnetic Compliance	(Class A or B)	B	B	B
Warranty Hardware*		5-year warranty	5-year warranty	5-year warranty
Warranty Power Supply		2-year warranty	2-year warranty	2-year warranty
<b>Modules</b>				
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0511-100005 PMB0531-100005 PMB0551-100005	PMB0511-100005 PMB0531-100005 PMB0551-100005	PMB0511-100005 PMB0531-100005 PMB0551-100005

# Easy Smart Managed Essentials

Easy Smart Managed, L2, Gigabit PoE

MODEL	GS308EPP	GS316EP	GS316EPP	
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	8	15	
	SFP Fiber Ports		1	
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3at Ports	8	15	
	Total PoE Budget	123W	180W	
Scalability	# MAC Addresses	4K	8K	
	Dynamic MAC	√	√	
System Management	Single IP Management	√	√	
	Web Managed/GUI	√	√	
	DHCP (Client/Server)	DHCP Client	DHCP Client	
	Port Mirroring	One-to-One	One-to-One	
Quality of Service	Number of Priority Queues	4	8	
	Traffic Prioritization	802.1p, Port-based and DSCP	802.1p, Port-based and DSCP	
	Auto Voice VLAN			
Multicast Filtering	IGMP Snooping Version	v1, v2 and v3	v1, v2 and v3	
Performance	Bandwidth	16 Gbps	32 Gbps	
	Buffer Memory	1.5Mbit	4.1Mbit	
	Jumbo Frames	9216 bytes	10000 bytes	
Traffic Management	Number of 802.1q VLAN/ Number of VLAN Group	64	64	
	Port Trunking/Link Aggregation (Manual Static LAGs)	Static LAG	Static LAG	
	Rate Limiting	√	√	
	Broadcast Storm Control	√	√	
Energy Efficiency	IEEE 802.3az	√	√	
	Auto Port Power Down	√	√	
	Dynamic Power Consumption	√	√	
	Max Power Consumption	5.9W (no PoE) 141.4W (with PoE max)	10.09W (no PoE) 198.72W (with PoE MAX)	10.2W (no PoE) 250.56W (with PoE MAX)
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount	
	Metal/Plastic Enclosure	Metal	Metal	
	MTBF at 25°C	842,428 hrs (96 yrs)	784,742 hrs (90 yrs)	570,435 hrs (65 yrs)
	Fan(s)	None	None	None
	Acoustic Noise at 25°C	0dB	0dB	0dB
	Width x Depth x Height	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4.0 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4.0 x 1.1 in)
	Weight	0.49 kg (1.08 lb)	0.83 kg (1.83 lb)	0.83 kg (1.83 lb)
Electromagnetic Compliance	(Class A or B)	B	B	
Warranty Hardware*		5-year warranty	5-year warranty	
Warranty Power Supply		2-year warranty	2-year warranty	
Modules		AGM731F AGM732F AGM734	AGM731F AGM732F AGM734	
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMBOS11-10000S PMBOS31-10000S PMBOS51-10000S	PMBOS11-10000S PMBOS31-10000S PMBOS51-10000S	

# Easy Smart Managed Enterprise

Easy Smart Managed, L2, Gigabit non-PoE



MODEL		GS105EV2	GS108EV4
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	5	8
	SFP Fiber Ports		
PoE (Power-over-Ethernet)	PoE + (30W) 802.3at Ports		
	Total PoE Budget		
Scalability	# MAC Addresses	2K	4K
	Dynamic MAC	√	√
System Management	Single IP Management	√	√
	Web Managed/GUI	√	√
	DHCP (Client/Server)	DHCP Client	DHCP Client
	Port Mirroring	One-to-One	Many-to-One
Quality of Service	Number of Priority Queues	4	4
	Traffic Prioritization	802.1p, Port-based and DSCP	802.1p, Port-based (CoS)
	Auto Voice VLAN		
Multicast Filtering	IGMP Snooping Version	v1, v2 and v3	v1, v2 and v3
Performance	Bandwidth	10 Gbps	16 Gbps
	Buffer Memory	1Mbit	1.5Mb
	Jumbo Frames	9216 bytes	9216 bytes
Traffic Management	Number of 802.1q VLAN/ Number of VLAN Group	64	64
	Port Trunking/Link Aggregation (Manual Static LAGs)		Static LAG
	Rate Limiting	√	√
	Broadcast Storm Control	√	√
Energy Efficiency	IEEE 802.3az	√	√
	Auto Port Power Down	√	√
	Dynamic Power Consumption		
	Max Power Consumption	2.6W	3.7W
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount
	Metal/Plastic Enclosure	Metal	Metal
	MTBF at 25°C	2,531,294 hrs (289 yrs)	2,463,431 hrs (281 yrs)
	Fan(s)	None	None
	Acoustic Noise at 25°C	0dB	0dB
	Width x Depth x Height	94 x 100 x 27 mm (3.7 x 3.9 x 1.1 in)	158 x 101 x 29 mm (6.2 x 4.0 x 1.1 in)
	Weight	0.25 kg (0.55 lb)	0.50 kg (1.10 lb)
Electromagnetic Compliance	(Class A or B)	B	B
Warranty Hardware*		Lifetime* Limited	Lifetime* Limited
Warranty Power Supply			
Modules			
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year	PMBOS11-100005	PMBOS11-100005
	OnCall 24x7 3-year	PMBOS31-100005	PMBOS31-100005
	OnCall 24x7 5-year	PMBOS51-100005	PMBOS51-100005

# Easy Smart Managed Enterprise

## Easy Smart Managed, L2, Gigabit PoE



MODEL		GS105EP	GS105EPP	GS108EP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	5	5	8
	SFP Fiber Ports			
PoE (Power-over-Ethernet)	PoE + (30W) 802.3at Ports	4	4	8
	Total PoE Budget	63W	120W	62W
Scalability	# MAC Addresses	2K	2K	4K
	Dynamic MAC	√	√	√
System Management	Single IP Management	√	√	√
	Web Managed/GUI	√	√	√
	DHCP (Client/Server)	DHCP Client	DHCP Client	DHCP Client
	Port Mirroring	One-to-One	One-to-One	One-to-One
Quality of Service	Number of Priority Queues	4	4	4
	Traffic Prioritization	802.1p, Port-based and DSCP	802.1p, Port-based and DSCP	802.1p, Port-based and DSCP
	Auto Voice VLAN			
Multicast Filtering	IGMP Snooping Version	v1, v2 and v3	v1, v2 and v3	v1, v2 and v3
Performance	Bandwidth	10 Gbps	10 Gbps	16 Gbps
	Buffer Memory	1Mbit	1Mbit	1.5Mbit
	Jumbo Frames	9216 bytes	9216 bytes	9216 bytes
Traffic Management	Number of 802.1q VLAN/ Number of VLAN Group	64	64	64
	Port Trunking/Link Aggregation (Manual Static LAGs)	Static LAG	Static LAG	Static LAG
	Rate Limiting	√	√	√
	Broadcast Storm Control	√	√	√
Energy Efficiency	IEEE 802.3az	√	√	√
	Auto Port Power Down	√	√	√
	Dynamic Power Consumption	√	√	√
	Max Power Consumption	4.9W (no PoE) 74.4W (with PoE max)	4.5W (no PoE) 137.8W (with PoE max)	6.0W (no PoE) 74.7W (with PoE max)
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount	Desktop, Wallmount
	Metal/Plastic Enclosure	Metal	Metal	Metal
	MTBF at 25°C	1,164,104 hrs (133 yrs)	853,770 hrs (97 yrs)	859,126 hrs (98 yrs)
	Fan(s)	None	None	None
	Acoustic Noise at 25°C	0dB	0dB	0dB
	Width x Depth x Height	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)
Weight	0.39 kg (0.86 lb)	0.40 kg (0.88 lb)	0.49 kg (1.08 lb)	
Electromagnetic Compliance	(Class A or B)	B	B	B
Warranty Hardware*		Lifetime* Limited	Lifetime* Limited	Lifetime* Limited
Warranty Power Supply		2 years	2 years	2 years
<b>Modules</b>				
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMBOS12-10000S PMBOS32-10000S PMBOS52-10000S	PMBOS12-10000S PMBOS32-10000S PMBOS52-10000S	PMBOS12-10000S PMBOS32-10000S PMBOS52-10000S

# Easy Smart Managed Enterprise

## Easy Smart Managed, L2, Gigabit PoE



MODEL		GS108EPP	GS116EP	GS116EPP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)	8	15	15
	SFP Fiber Ports		1	1
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3at Ports	8	15	15
	Total PoE Budget	123W	180W	231W
Scalability	# MAC Addresses	4K	8K	8K
	Dynamic MAC	√	√	√
System Management	Single IP Management	√	√	√
	Web Managed/GUI	√	√	√
	DHCP (Client/Server)	DHCP Client	DHCP Client	DHCP Client
	Port Mirroring	One-to-One	One-to-One	One-to-One
Quality of Service	Number of Priority Queues	4	8	8
	Traffic Prioritization	802.1p, Port-based and DSCP	802.1p, Port-based and DSCP	802.1p, Port-based and DSCP
	Auto Voice VLAN			
Multicast Filtering	IGMP Snooping Version	v1, v2 and v3	v1, v2 and v3	v1, v2 and v3
Performance	Bandwidth	16 Gbps	32 Gbps	32 Gbps
	Buffer Memory	1.5Mbit	4.1Mbit	4.1Mbit
	Jumbo Frames	9216 bytes	10000 bytes	10000 bytes
Traffic Management	Number of 802.1q VLAN/ Number of VLAN Group	64	64	64
	Port Trunking/Link Aggregation (Manual Static LAGs)	Static LAG	Static LAG	Static LAG
	Rate Limiting	√	√	√
	Broadcast Storm Control	√	√	√
Energy Efficiency	IEEE 802.3az	√	√	√
	Auto Port Power Down	√	√	√
	Dynamic Power Consumption	√	√	√
	Max Power Consumption	5.9W (no PoE) 141.4W (with PoE max)	10.09W (no PoE) 198.72W (with PoE MAX)	10.2W (no PoE) 250.56W (with PoE MAX)
Physical	Desktop/Rackmount/Click	Desktop, Wallmount	Desktop, Wallmount	Desktop, Wallmount
	Metal/Plastic Enclosure	Metal	Metal	Metal
	MTBF at 25°C	842,428 hrs (96 yrs)	784,742 hrs (90 yrs)	570,435 hrs (65 yrs)
	Fan(s)	None	None	None
	Acoustic Noise at 25°C	0dB	0dB	0dB
	Width x Depth x Height	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4.0 x 1.1 in)	286 x 102 x 27 mm (11.3 x 4.0 x 1.1 in)
	Weight	0.49 kg (1.08 lb)	0.83 kg (1.83 lb)	0.83 kg (1.83 lb)
Electromagnetic Compliance	(Class A or B)	B	B	B
Warranty Hardware*		Lifetime* Limited	Lifetime* Limited	Lifetime* Limited
Warranty Power Supply		2 years	2 years	2 years
Modules			AGM731F AGM732F AGM734	AGM731F AGM732F AGM734
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0512-100005 PMB0532-100005 PMB0552-100005	PMB0311-100005 PMB0331-100005 PMB0351-100005	PMB0311-100005 PMB0331-100005 PMB0351-100005

# Easy Smart Managed 2.5G/Multi-Gigabit

Easy Smart Managed, L2, Multi-Gigabit: non-PoE

MODEL	MS305E	MS308E	MS108EUP
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)		
	1G/2.5GBASE-T RJ45 Copper Ports (Auto Uplink)	5	8
	1G/10GBASE-T RJ45 Copper Ports (Auto Uplink)		
	100M/1G/2.5G/5G/10G RJ45 Copper Ports (Auto Uplink)		
	10G SFP+ Fiber Ports		
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3at Ports		8
	Ultra60 PoE+ (60W) 802.3bt Type3 Ports		4
	Total PoE Budget		230W
Scalability	# MAC Addresses	4K	16K
	Dynamic MAC	√	√
System Management	Single IP Management	√	√
	Web Managed/GUI	√	√
	DHCP (Client/Server)	DHCP Client	DHCP Client
	Port Mirroring	One-to-One	One-to-One
Quality of Service	Number of Priority Queues	8	8
	Traffic Prioritization	802.1p, Port-based and DSCP	802.1p, Port-based and DSCP
	Auto Voice VLAN	√	√
Multicast Filtering	IGMP Snooping Version	v1, v2 and v3	v1, v2 and v3
Performance	Bandwidth	25 Gbps	40 Gbps
	Buffer Memory	1MB	1.5 MB
	Jumbo Frames	12288 bytes	12288 bytes
Traffic Management	Number of 802.1q VLAN/ Number of VLAN Group	64	64
	Port Trunking/Link Aggregation (Manual Static LAGs)	Static, LACP	Static, LACP
	Rate Limiting	√	√
	Broadcast Storm Control	√	√
Energy Efficiency	IEEE 802.3az	√	√
	Auto Port Power Down	√	√
	Dynamic Power Consumption	√	√
	Max Power Consumption	5.6W	8.1W
Physical	Desktop/Rackmount/Click	Desktop	Desktop, Rackmount
	Metal/Plastic Enclosure	Metal	Metal
	MTBF at 25°C	4,273,003 hrs @ 25°C (488 yrs)	3,309,911 hrs @ 25°C (378 yrs)
	Fan(s)	None	None
	Acoustic Noise at 25°C	0dB	0dB
	Width x Depth x Height	158x101.25x27(mm) (6.2x4.0x1.1 in)	158x101.25x26.8(mm) (6.2x4.0x1.1 in)
	Weight	0.454 kg (1.00 lb)	0.43 kg (0.95 lb)
Electromagnetic Compliance	(Class A or B)	B	B
Warranty Hardware*	5-year warranty	5-year warranty	Limited Lifetime*
Warranty Power Supply			2-year warranty
<b>Modules</b>			
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0S11-10000S PMB0S31-10000S PMB0S51-10000S	PMB0S12-10000S PMB0S32-10000S PMB0S52-10000S

# Easy Smart Managed 10G/Multi-Gigabit

Easy Smart Managed, L2, 10G/Multi-Gigabit: non-PoE



MODEL		XS512EMV2	XS724EMV2
Port Configuration	10M/100M/1G RJ45 Copper Ports (Auto Uplink)		
	1G/2.5GBASE-T RJ45 Copper Ports (Auto Uplink)		
	1G/10GBASE-T RJ45 Copper Ports (Auto Uplink)		
	100M/1G/2.5G/5G/10G RJ45 Copper Ports (Auto Uplink)	10	24
	10G SFP+ Fiber Ports	2 (dedicated)	4 (dedicated)
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3at Ports		
	UltraPoE PoE++ (60W) 802.3bt Type3 Ports		
	Total PoE Budget		
Scalability	# MAC Addresses	32K	32K
	Dynamic MAC	√	√
System Management	Single IP Management	√	√
	Web Managed/GUI	√	√
	DHCP (Client/Server)	DHCP Client	DHCP Client
	Port Mirroring	One-to-One	One-to-One
Quality of Service	Number of Priority Queues	8	8
	Traffic Prioritization	802.1p, Port-based and DSCP	802.1p, Port-based and DSCP
	Auto Voice VLAN	√	√
Multicast Filtering	IGMP Snooping Version	v1, v2 and v3	v1, v2 and v3
Performance	Bandwidth	240 Gbps	560 Gbps
	Buffer Memory	2MB	8MB
	Jumbo Frames	12288 bytes	12288 bytes
Traffic Management	Number of 802.1q VLAN/ Number of VLAN Group	64	64
	Port Trunking/Link Aggregation (Manual Static LAGs)	Static, LACP	Static, LACP
	Rate Limiting	√	√
	Broadcast Storm Control	√	√
Energy Efficiency	IEEE 802.3az	√	√
	Auto Port Power Down	√	√
	Dynamic Power Consumption	√	√
	Max Power Consumption	60W	139W
Physical	Desktop/Rackmount/Click	Desktop, Rackmount	Desktop, Rackmount
	Metal/Plastic Enclosure	Metal	Metal
	MTBF at 25°C	420,709 hrs (48 yrs)	161,283 hrs (18 yrs)
	Fan(s)	2	3
	Acoustic Noise at 25°C	28.2 dBA	35.3 dBA
	Width x Depth x Height	330.2x207.55x43.2(mm) (13.0x8.2x1.7 in)	440x204x43.2(mm) (17.3x8.0x1.7 in)
	Weight	2.5 kg (5.51 lb)	3.9 kg (8.60 lb)
Electromagnetic Compliance	(Class A or B)	A	A
Warranty Hardware*		Limited Lifetime*	Limited Lifetime*
Warranty Power Supply			
Modules		AGM731F AGM732F AGM734 AXC761 AXC763 AXM761 AXM762 AXM764 AXM765	AGM731F AGM732F AGM734 AXC761 AXC763 AXM761 AXM762 AXM764 AXM765
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0312-10000S PMB0332-10000S PMB0352-10000S	PMB0312-10000S PMB0332-10000S PMB0352-10000S

# Smart Managed Cloud

## Smart with Cloud, L2/L2+/L3 Lite, Gigabit







MODEL		GS108TV3	GS110TPV3	GS510TPP	GS724TV6	GS748TV6
Port Configuration	RJ45 Ports (Auto Uplink)	8 x 1G	8 x 1G	8 x 1G	24 x 1G	48 x 1G (including 2 combo ports)
	Fiber Ports		2 dedicated SFP	2 dedicated SFP	2 dedicated SFP	2 dedicated and 2 combo SFP
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3at Ports		8	8		
	Ultra60 PoE++ (60W) 802.3bt Ports					
	Total PoE Budget		55 Watts	190W		
	PoE Self-healing (Auto-PoE recovery) Uninterrupted PoE (not affected by soft reset)					
Scalability	# MAC Addresses	8,000	8,000	16,000	16,000	16,000
	ARP Table - Size of	512	512	479	512	512
	# Routing Entries	32	32	32	32	32
	# ACL Rules	64	64	100	100	100
System Management	Single IP Management	√	√	√	√	√
	Web Managed/GUI	√	√	√	√	√
	Insight Cloud Management Option	√	√	√	√	√
	Smart Command Line Interface/Telnet	Smart CLI	Smart CLI			
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9
	DHCP (Client/Server/Relay)	Client	Client	Client	Client	Client
	Port Mirroring	Many-to-One	Many-to-One	Many-to-One	Many-to-One	Many-to-One
	IPv6 full set			Yes	Yes	Yes
Quality of Service	Number of Priority Queues	8	8	8	4	8
	Traffic Prioritization	802.1p, DSCP, Diffserv, TCP/UDP	802.1p, DSCP, Diffserv, TCP/UDP	802.1p, DSCP, Diffserv	802.1p, DSCP, Diffserv	802.1p, DSCP, Diffserv
	Auto Voice VLAN	√	√	√	√	√
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier			√	√	√
Performance	Bandwidth	16 Gbps	20 Gbps	20 Gbps	52 Gbps	100 Gbps
	Buffer Memory	0.5 MB Per System	0.5 MB Per System	1.5 MB Per System	512 KB Per System	2 MB Per System
	Jumbo Frames	10,000	10,000	9,216	9,216	9,216
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s
Traffic Management	Number of 802.1q VLAN/#. of VLAN Group	64	64	256	64	256
	Link Agregation 802.3ad/LACP	√	√	√	√	√
	Discovery Protocol LLDP 802.1ab	√	√	√	√	√
	Rate Limiting	√	√	√	√	√
	Broadcast Storm Control	√	√	√	√	√
L3 Routing	IPv4 Static Routing	√	√	√	√	√
	IPv6 Static Routing			√		
Security	IEEE 802.1x (RADIUS)	√	√	√	√	√
	ACL - Access Control Lists	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4
	SSL/SSH & HTTPS	HTTPS	HTTPS	SSL/HTTPS	SSL/HTTPS	SSL/HTTPS
	Guest VLAN	√	√	√	√	√
	DHCP Snooping/IP Source Guard/ARP Guard	√	√	√	√	√
	TACACS+	√	√	√	√	√
Energy Efficiency	IEEE 802.3az	√	√	√	√	√
	Auto Port Power Down	√	√	√	√	√
	Dynamic Power Budget Allocation	√	√	√	√	√
	Max Power Consumption	5.75 Watts if powered by PoE via port 5.5 Watts (DC)	69.5W (with PoE max)	225W	13.5W	41.1W
Physical	Desktop/Rackmount/Click	Desktop	Desktop	Desktop/Rackmount	Desktop/Rackmount	Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal	Metal
	MTBF at 25°C	2,388,657 hrs (273 yrs)	1,200,041 hrs (137 yrs)	1,509,979 hrs (172 yrs)	1,999,947 hrs (288 yrs)	390,728 hrs (44.6 yrs)
	Fan	None	None	1	Fanless	2
	Acoustic Noise at 25°C	0 dBA	0 dBA	32dBA	0	37.2 dBA
	Width x Depth x Height	158 x 101 x 27 mm (6.2 x 4.0 x 1.1 in)	236 x 101 x 27 mm (9.3 x 4.0 x 1.1 in)	328 x 169 x 43 mm (12.9 x 6.7 x 1.7 in)	328 x 169 x 43 mm (12.9 x 6.7 x 1.7 in)	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)
	Weight	0.43 kg (0.94 lb)	0.61 kg (1.34 lb)	1.83 kg (4.03 lb)	1.62 kg (3.57 lb)	3.46 kg (7.63 lb)
Electromagnetic Compliance	(Class A or B)	B	B	A	A	A
Warranty Hardware*		Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
Warranty Power Supply		2 yrs	2 yrs	Limited Lifetime	Limited Lifetime	Limited Lifetime
Modules			AGM731F/AGM732F AGM734	AGM731F/AGM732F AGM734	AGM731F/AGM732F AGM734	AGM731F/AGM732F AGM734/AFM735 (for combo port only)
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0511-10000S PMB0531-10000S PMB0551-10000S	PMB0512-10000S PMB0532-10000S PMB0552-10000S	PMB0311-10000S PMB0331-10000S PMB0351-10000S	PMB0311-10000S PMB0331-10000S PMB0351-10000S	PMB0311-10000S PMB0331-10000S PMB0351-10000S

# Smart Managed Cloud

Smart with Cloud, L2, Gigabit

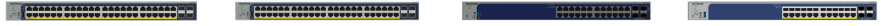
Smart with Cloud, L2/L2+/L3 Lite, Gigabit

					
MODEL		GS724TPV3	GS724TPPV3	GS728TPV3	GS728TPPV3
Port Configuration	RJ45 Ports (Auto Uplink)	24 x 1G	24 x 1G	24 x 1G	24 x 1G
	Fiber Ports	2 dedicated SFP	2 dedicated SFP	4 dedicated SFP	4 dedicated SFP
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3at Ports	24	24	24	24
	Ultra60 PoE++ (60W) 802.3bt Ports				
	Total PoE Budget	190 Watts	380W	190 Watts	380 Watts
	PoE Self-healing (Auto-PoE recovery)				
	Uninterrupted PoE (not affected by soft reset)				
Scalability	# MAC Addresses	8,000	8,000	16,000	16,000
	ARP Table – Size of			512	512
	# Routing Entries			32	32
	# ACL Rules	100 shared (Ingress)	100 shared (Ingress)	100 shared (Ingress)	100 shared (Ingress)
System Management	Single IP Management	√	√	√	√
	Web Managed/GUI	√	√	√	√
	Insight Cloud Management Option	√	√	√	√
	Smart Command Line Interface/Telnet	Smart CLI	Smart CLI	Smart CLI	Smart CLI
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9
	DHCP (Client/Server/Relay)	Client	Client/L2 Relay	Client/L2 Relay	Client/L2 Relay
	Port Mirroring	Many-to-One	Many-to-One	Many-to-One	Many-to-One
	IPv6 full set	√	√	√	√
Quality of Service	Number of Priority Queues	8	8	8	8
	Traffic Prioritization	802.1p, DSCP, Diffserv	802.1p, DSCP, Diffserv, TCP/UDP	802.1p ; Diffserv ; TCP/UDP	802.1p ; Diffserv ; TCP/UDP
	Auto Voice VLAN	√	√	√	√
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier	√	√	√	√
Performance	Bandwidth	52 Gbps	52 Gbps	56 Gbps	56 Gbps
	Buffer Memory	1.5 MB Per System	1.5 MB Per System	1.5 MB Per System	1.5 MB Per System
	Jumbo Frames	10,000	10,000	10,000	10,000
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s
Traffic Management	Number of 802.1q VLAN/#. of VLAN Group	256	256	256	256
	Link Agregation 802.3ad/LACP	√	√	√	√
	Discovery Protocol LLDP 802.1ab	√	√	√	√
	Rate Limiting	√	√	√	√
L3 Routing	Broadcast Storm Control	√	√	√	√
	IPv4 Static Routing			√	√
Security	IPv6 Static Routing			√	√
	IEEE 802.1x (RADIUS)	√	√	√	√
	ACL - Access Control Lists	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4
	SSL/SSH & HTTPS	HTTPS/SSH	HTTPS/SSH	HTTPS/SSH	HTTPS/SSH
	Guest VLAN	√	√	√	√
	DHCP Snooping/IP Source Guard/ARP Guard	DHCP Snooping Only	DHCP Snooping Only	√	√
	TACACS+	√	√	√	√
Energy Efficiency	IEEE 802.3az	√	√	√	√
	Auto Port Power Down	√	√	√	√
	Dynamic Power Budget Allocation	√	√	√	√
Physical	Max Power Consumption	231.1 Watts	396.95 Watts	226 Watts	427 Watts
	Desktop/Rackmount/Click	Rackmount	Rackmount	Rackmount	Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal
	MTBF at 25°C	1,784,610 hrs (142 yrs)	1,310,422 hrs (149 yrs)	1,751,613 hrs (200 yrs)	1,252,990 hrs (143 yrs)
	Fan	2	2	2	2
	Acoustic Noise at 25°C	26.1 dBA	33.6 dBA	26.8 dBA	33.3 dBA
	Width x Depth x Height	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)
	Weight	3.15 kg (6.96 lb)	3.7 kg (8.1 lb)	3.78 kg (8.3lb)	4.11 kg (9.10 lb)
Electromagnetic Compliance	(Class A or B)	A		A	
Warranty Hardware*		Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
Warranty Power Supply		Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
Modules		AGM731F/AGM732F AGM734	AGM731F/AGM732F AGM734	AGM731F/AGM732F AGM734	AGM731F/AGM732F AGM734
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0311-10000S PMB0331-10000S PMB0351-10000S	PMB0512-10000S PMB0532-10000S PMB0552-10000S	PMB0311-10000S PMB0331-10000S PMB0351-10000S	PMB0311-10000S PMB0331-10000S PMB0351-10000S

# Smart Managed Cloud

Smart with Cloud, L2/L2+/L3 Lite, Gigabit

Smart with Cloud, L2/L2+/L3 Lite, Gigabit/10G



MODEL		GS752TPV3	GS752TPPV3	GS728TXV3	GS728TXPV3
Port Configuration	RJ45 Ports (Auto Uplink)	48 x 1G	48 x 1G	24 x 1G	24 x 1G
	Fiber Ports	4 dedicated SFP	4 dedicated SFP	4 dedicated 10G SFP+	4 dedicated 10G SFP+
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3af Ports	48	48		24
	Ultra60 PoE++ (60W) 802.3bt Ports				
	Total PoE Budget	380 Watts	760 Watts		190W
	PoE Self-healing (Auto-PoE recovery)				
	Uninterrupted PoE (not affected by soft reset)				
Scalability	# MAC Addresses	16,000	16,000	16,000	16,000
	ARP Table - Size of	512	512	512	512
	# Routing Entries	32	32	32	32
	# ACL Rules	100 shared (Ingress)	100	100 shared (ingress)	100 shared (ingress)
System Management	Single IP Management	√	√	√	√
	Web Managed/GUI	√	√	√	√
	Insight Cloud Management Option	√	√	√	√
	Smart Command Line Interface/Telnet	Smart CLI	Smart CLI	Smart CLI	Smart CLI
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9
	DHCP (Client/Server/Relay)	Client/L2 Relay	Client/L2 Relay	Client/L2 Relay	Client/L2 Relay
	Port Mirroring	Many-to-One	Many-to-One	Many-to-One	Many-to-One
	IPv6 full set	√	√	√	√
Quality of Service	Number of Priority Queues	8	8	8	8
	Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
	Auto Voice VLAN	√	√	√	√
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier	√	√	√	√
Performance	Bandwidth	104 Gbps	104 Gbps	128 Gbps	128 Gbps
	Buffer Memory	1.5 MB Per System	1.5 MB Per System	1.5MB	1.5MB
	Jumbo Frames	10,000	10,000	10,000	10,000
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s
Traffic Management	Number of 802.1q VLAN/#. of VLAN Group	256	256	256	256
	Link Agregation 802.3ad/LACP	√	√	√	√
	Discovery Protocol LLDP 802.1ab	√	√	√	√
	Rate Limiting	√	√	√	√
	Broadcast Storm Control	√	√	√	√
L3 Routing	IPv4 Static Routing	√	√	√	√
	IPv6 Static Routing	√	√	√	√
Security	IEEE 802.1x (RADIUS)	√	√	√	√
	ACL - Access Control Lists	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4
	SSL/SSH & HTTPS	HTTPS/SSH	HTTPS/SSH	HTTPS	HTTPS
	Guest VLAN	√	√	√	√
	DHCP Snooping/IP Source Guard/ARP Guard	√	√	√	√
	TACACS+	√	√	√	√
	IEEE 802.3az	√	√	√	√
Energy Efficiency	Auto Port Power Down	√	√	√	√
	Dynamic Power Budget Allocation	√	√	√	√
	Max Power Consumption	431 Watts	861 Watts	25.64W	29W(no PoE) 231W (with PoE max)
Physical	Desktop/Rackmount/Click	Rackmount	Rackmount	Rackmount	Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal
	MTBF at 25°C	1,410,340 hrs (161 yrs)	1,296,949 hrs (148 yrs)	382,249hrs (43.6 yrs)	1,751,613hrs (199.8 yrs)
	Fan	2	3	1	2
	Acoustic Noise at 25°C	36.6 dBA	39.3 dBA	29 dBA	26.8 dBA
	Width x Depth x Height	440 x 310 x 43 mm (17.3 x 12.2 x 1.7 in)	440 x 310 x 43 mm (17.3 x 12.2 x 1.7 in)	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)
	Weight	4.93 kg (10.90 lb)	5.03 kg (11.10lb)	3.08kg (6.79 lb)	3.45kg (7.61 lb)
Electromagnetic Compliance	(Class A or B)	A	A	A	A
Warranty Hardware*		Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
Warranty Power Supply		Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
Modules		AGM731F/AGM732F/AGM734	AGM731F/AGM732F/AGM734	AGM732F/AGM734/AXM761/ AXM762/AXM764 AXM765v2 (2 SFP+ ports) AXC761/AXC763	AGM732F/AGM734/AXM761/AXM762 /AXM764 AXM765v2 (2 SFP+ ports) AXC761/AXC763
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year	PMB0312-10000S	PMB0312-10000S	PMB0311-10000S	PMB0311-10000S
	OnCall 24x7 3-year	PMB0332-10000S	PMB0332-10000S	PMB0331-10000S	PMB0331-10000S
	OnCall 24x7 5-year	PMB0352-10000S	PMB0352-10000S	PMB0351-10000S	PMB0351-10000S

# Smart Managed Cloud

## Smart with Cloud, L2/L2+/L3 Lite, Gigabit/10G

MODEL		GS728TXUP	GS752TXV3	GS752TXPV3	GS752TXUP
Port Configuration	RJ45 Ports (Auto Uplink)	24 x 1G	48 x 1G	48 x 1G	48 x 1G
	Fiber Ports	4 dedicated 10G SFP+	4 dedicated 10G SFP+	4 dedicated 10G SFP+	4 dedicated 10G SFP+
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3at Ports	16	48	48	32
	Ultra60 PoE++ (60W) 802.3bt Ports	8			16
	Total PoE Budget	420W		380W	640W
	PoE Self-healing (Auto-PoE recovery)	Yes			Yes
	Uninterrupted PoE (not affected by soft reset)				
Scalability	# MAC Addresses	16,000	16,000	16,000	16,000
	ARP Table - Size of	512	512	512	512
	# Routing Entries	32	32	32	32
	# ACL Rules	100 shared (ingress)	100 shared (ingress)	100 shared (ingress)	100 shared (ingress)
System Management	Single IP Management	√	√	√	√
	Web Managed/GUI	√	√	√	√
	Insight Cloud Management Option	√	√	√	√
	Smart Command Line Interface/Telnet	Smart CLI	Smart CLI	Smart CLI	Smart CLI
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9
	DHCP (Client/Server/Relay)	Client/L2 Relay	Client/L2 Relay	Client/L2 Relay	Client/L2 Relay
	Port Mirroring	Many-to-One	Many-to-One	Many-to-One	Many-to-One
	IPv6 full set	√	√	√	√
Quality of Service	Number of Priority Queues	8	8	8	8
	Traffic Prioritization	802.1p ; Diffserv ; TCP/UDP	802.1p ; Diffserv ; TCP/UDP	802.1p ; Diffserv ; TCP/UDP	802.1p ; Diffserv ; TCP/UDP
	Auto Voice VLAN	√	√	√	√
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier	√	√	√	√
Performance	Bandwidth	128 Gbps	176 Gbps	176 Gbps	176 Gbps
	Buffer Memory	1.5MB	1.5MB	1.5MB	1.5MB
	Jumbo Frames	10,000	10,000	10,000	10,000
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s
Traffic Management	Number of 802.1q VLAN/#. of VLAN Group	256	256	256	256
	Link Agregation 802.3ad/LACP	√	√	√	√
	Discovery Protocol LLDP 802.1ab	√	√	√	√
	Rate Limiting	√	√	√	√
	Broadcast Storm Control	√	√	√	√
L3 Routing	IPv4 Static Routing	√	√	√	√
	IPv6 Static Routing	√	√	√	√
Security	IEEE 802.1x (RADIUS)				
	ACL - Access Control Lists	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4
	SSL/SSH & HTTPS	HTTPS	HTTPS	HTTPS	HTTPS
	Guest VLAN	√	√	√	√
	DHCP Snooping/IP Source Guard/ARP Guard	√	√	√	√
	TACACS+	√	√	√	√
Energy Efficiency	IEEE 802.3az	√	√	√	√
	Auto Port Power Down	√	√	√	√
	Dynamic Power Budget Allocation	√	√	√	√
	Max Power Consumption	27.29W(no PoE) 501.87W (with PoE max)	42.87W	51W(no PoE) 436W (with PoE max)	47.24W(no PoE) 762.5W (with PoE max)
Physical	Desktop/Rackmount/Click	Rackmount	Rackmount	Rackmount	Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal
	MTBF at 25°C	286,168hrs (32.6 yrs)	346,910hrs (39.6 yrs)	1,410,340hrs (160.9 yrs)	191,643hrs (21.9 yrs)
	Fan	2	2	2	2
	Acoustic Noise at 25°C	30.5 dBA	32.5 dBA	36.6 dBA	37.3 dBA
	Width x Depth x Height	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)	440 x 257 x 43 mm (17.3 x 10.1 x 1.7 in)	440 x 316 x 43.2mm (17.3 x 12.4 x 1.7 in)	440 x 316 x 43.2mm (17.3 x 12.4 x 1.7 in)
	Weight	3.86kg (8.5lb)	3.53kg (7.78 lb)	4.05kg (9.92 lb)	4.79kg (10.56 lb)
Electromagnetic Compliance	(Class A or B)	A	A	A	A
Warranty Hardware*		Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
Warranty Power Supply		Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
Modules		AGM732F/AGM734/AXM761/ AXM762 /AXM764 AXM765v2 (2 SFP+ ports) AXC761/AXC763	AGM732F/AGM734/AXM761 AXM762 /AXM764 AXM765v2 (2 SFP+ ports) AXC761/AXC763	AGM732F/AGM734/AXM761 AXM762 /AXM764 AXM765v2 (2 SFP+ ports) AXC761/AXC763	AGM732F/AGM734/AXM761/AXM762 /AXM764 AXM765v2 (2 SFP+ ports) AXC761/AXC763
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0312-10000S PMB0332-10000S PMB0352-10000S	PMB0311-10000S PMB0331-10000S PMB0351-10000S	PMB0311-10000S PMB0331-10000S PMB0351-10000S	PMB0312-10000S PMB0332-10000S PMB0352-10000S

# Smart Managed Cloud

## Smart with Cloud, L2/L2+/L3 Lite, Multi-Gigabit



MODEL		MS108TUP	MS510TXM	MS510TXUP	MS324TXUP
Port Configuration	RJ45 Ports (Auto Uplink)	8x1G/2.5G	4x1G/2.5G, 4x 1G/2.5G/5G/10G	4x1G/2.5G, 4x 1G/2.5G/5G/10G	24x1G/2.5G
	Fiber Ports		2 dedicated 10G SFP+	2 dedicated 10G SFP+	4 dedicated 10G SFP+
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3at Ports	8		8	24
	Ultra60 PoE++ (60W) 802.3bt Ports	4		8	24
	Total PoE Budget	230W		295 Watts	720 Watts
	PoE Self-healing (Auto-PoE recovery)	Yes			Yes
	Uninterrupted PoE (not affected by soft reset)	Yes		Yes	Yes
Scalability	# MAC Addresses	16,000	32,000	32,000	32,000
	ARP Table - Size of	1,024	512	512	1,024
	# Routing Entries	32	32	32	32
	# ACL Rules	100 shared (Ingress)	100	100	100 shared (Ingress)
System Management	Single IP Management	√	√	√	√
	Web Managed/GUI	√	√	√	√
	Insight Cloud Management Option	√	√	√	√
	Smart Command Line Interface/Telnet	Smart CLI	Smart CLI	Smart CLI	Smart CLI
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9
	DHCP (Client/Server/Relay)	Client/Server/Relay	Client	Client	Client/Server/Relay
	Port Mirroring	Many-to-One	Many-to-One	Many-to-One	Many-to-One
	IPv6 full set	√	√	√	√
Quality of Service	Number of Priority Queues	8	8	8	8
	Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
	Auto Voice VLAN	√	√	√	√
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier	√	√	√	√
Performance	Bandwidth	40 Gbps	140 Gbps	140 Gbps	200 Gbps
	Buffer Memory	1.5 MB Per System	2 MB Per System	2 MB Per System	2 MB Per System
	Jumbo Frames	12,000	10,000	10,000	10,000
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s
Traffic Management	Number of 802.1q VLAN/#. of VLAN Group	256	256	256	256
	Link Aggregation 802.3ad/LACP	√	√	√	√
	Discovery Protocol LLDP 802.1ab	√	√	√	√
	Rate Limiting	√	√	√	√
	Broadcast Storm Control	√	√	√	√
L3 Routing	IPv4 Static Routing	√	√	√	√
	IPv6 Static Routing	√	√	√	√
Security	IEEE 802.1x (RADIUS)	√	√	√	√
	ACL - Access Control Lists	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4
	SSL/SSH & HTTPS	HTTPS	HTTPS	HTTPS	HTTPS
	Guest VLAN	√	√	√	√
	DHCP Snooping/IP Source Guard/ARP Guard	√	√	√	√
	TACACS+	√	√	√	√
Energy Efficiency	IEEE 802.3az	√	√	√	√
	Auto Port Power Down	√			√
	Dynamic Power Budget Allocation	√	√	√	√
	Max Power Consumption	16.58W(no PoE) 270.5W(with PoE MAX)	47 Watts	380 Watts	42W(no POE) 765W(with POE MAX)
Physical	Desktop/Rackmount/Click	Desktop/Wallmount	Rackmount	Rackmount	Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal	Metal
	MTBF at 25°C	373,643.7 hrs (42.65 yrs)	1,059,519hrs (121 yrs)	848,553 hrs (97 yrs)	1,017,939hrs (116.12 yrs)
	Fan	None	2	3	3
	Acoustic Noise at 25°C	0 dBA	25 dBA	33 dBA	38 dBA
	Width x Depth x Height	210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)	330 x 206 x 43mm (13.0 x 8.12 x 1.7 in)	330 x 206 x 43mm (13.0 x 8.12 x 1.7 in)	440 x 310 x 43 mm (17.3 x 12.2 x 1.7 in)
	Weight	0.9 kg (1.984 lb)	2.08 kg (4.59lb)	2.51kg (5.54lb)	4.44kg (9.78 lb)
Electromagnetic Compliance (Class A or B)	B	A	A	A	
Warranty Hardware*	Limited Lifetime	Limited Lifetime	Limited Lifetime	5 year	
Warranty Power Supply	2 year	Limited Lifetime	Limited Lifetime	5 year	
Modules		AGM731F/AGM732F/AGM734/ AXM761/AXM762/AXM764/ AXC761/AXC763	AGM731F/AGM732F/AGM734/ AXM761/AXM762/AXM764/ AXC761/AXC763	AGM731F/AGM732F/AGM734/ AXM761/AXM762/AXM764/ AXC761/AXC763	AGM732F/AGM734/AXM761/ AXM762/AXM764/AXM765/AXC761/ AXC763
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0312-10000S PMB0332-10000S PMB0352-10000S	PMB0311-10000S PMB0331-10000S PMB0351-10000S	PMB0311-10000S PMB0331-10000S PMB0351-10000S	PMB0313-10000S PMB0333-10000S PMB0353-10000S

# Smart Managed Cloud

## Smart with Cloud, L2/L2+/L3 Lite, 10G/Multi-Gigabit



MODEL		XS508TM	XS516TM	XS724TM
Port Configuration	RJ45 Ports (Auto Uplink)	8x1G/2.5G/5G/10G	16x 1G/2.5G/5G/10G	24x 1G/2.5G/5G/10G
	Fiber Ports	2 dedicated 10G SFP+	2 dedicated 10G SFP+	4 dedicated 10G SFP+
PoE (Power-over-Ethernet)	PoE+ (30W) 802.3af Ports			
	Ultra60 PoE++ (60W) 802.3bt Ports			
	Total PoE Budget			
	PoE Self-healing (Auto-PoE recovery)			
	Uninterrupted PoE (not affected by soft reset)			
Scalability	# MAC Addresses	16,000	16,000	16,000
	ARP Table - Size of	1024	1024	1024
	# Routing Entries	64	64	64
	# ACL Rules	100 shared (ingress)	100 shared (ingress)	100 shared (ingress)
System Management	Single IP Management	√	√	√
	Web Managed/GUI	√	√	√
	Insight Cloud Management Option	√	√	√
	Smart Command Line Interface/Telnet	Smart CLI	Smart CLI	Smart CLI
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1,2,3,9	1,2,3,9	1,2,3,9
	DHCP (Client/Server/Relay)	Client/Server/Relay	Client/Server/Relay	Client/Server/Relay
	Port Mirroring	Many-to-One	Many-to-One	Many-to-One
Quality of Service	IPv6 full set	√	√	√
	Number of Priority Queues	8	8	8
	Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
Multicast Filtering	Auto Voice VLAN	√	√	√
	IGMP Snooping Version	vU32:W581, v2, v3	v1, v2, v3	v1, v2, v3
Performance	IGMP Snooping Querier	√	√	√
	Bandwidth	200 Gbps	360 Gbps	560 Gbps
	Buffer Memory	2 MB Per System	4 MB Per System	4 MB Per System
Availability	Jumbo Frames	9,216	9,216	9,216
	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	802.1d, .1w, .1s
Traffic Management	Number of 802.1q VLAN/#. of VLAN Group	512	512	512
	Link Agregation 802.3ad/LACP	√	√	√
	Discovery Protocol LLDP 802.1ab	√	√	√
	Rate Limiting	√	√	√
L3 Routing	Broadcast Storm Control	√	√	√
	IPv4 Static Routing	√	√	√
Security	IPv6 Static Routing	√	√	√
	IEEE 802.1x (RADIUS)	√	√	√
	ACL - Access Control Lists	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4	MAC, IP, IPv6, L4
	SSL/SSH & HTTPS	HTTPS	HTTPS	HTTPS
	Guest VLAN	√	√	√
	DHCP Snooping/IP Source Guard/ARP Guard	√	√	√
Energy Efficiency	TACACS+	√	√	√
	IEEE 802.3az	√	√	√
	Auto Port Power Down	√	√	
	Dynamic Power Budget Allocation			
Physical	Max Power Consumption	32.7W	64.78W	92.46W
	Desktop/Rackmount/Click	Wallmount/Rackmount	Wallmount/Rackmount	Rackmount
	Metal/Plastic Enclosure	Metal	Metal	Metal
	MTBF at 25°C	818,977.9 hrs (93.4 yrs)	506,741.9 hrs (57.8 yrs)	408,354.7 hrs (46.6 yrs)
	Fan	2	3	3
	Acoustic Noise at 25°C	28.63 dBA	27.35 dBA	29.61 dBA
	Width x Depth x Height	330 x 206 x 43.2 mm (13 x 8.12 x 1.7 in)	330 x 206 x 43.2 mm (13 x 8.12 x 1.7 in)	440 x 204 x 43.2 mm (17.3 x 8.03 x 1.7 in)
Weight	2.2kg (4.85lb)	2.45kg (5.4 lb)	3.38kg (7.45 lb)	
Electromagnetic Compliance	(Class A or B)	A	A	A
Warranty Hardware*	Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
Warranty Power Supply	Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
Modules		AGM732F/AGM734/AXM761/AXM762 AXM764/AXM765v2 /AXC761/AXC763	AGM732F/AGM734/AXM761/AXM762 /AXM764 AXM765v2 /AXC761/AXC763	AGM732F/AGM734/AXM761/AXM762 /AXM764 AXM765v2 /AXC761/AXC763
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0312-100005 PMB0332-100005 PMB0352-100005	PMB0312-100005 PMB0332-100005 PMB0352-100005	PMB0313-100005 PMB0333-100005 PMB0353-100005

# Fully Managed

## Fully Managed, AV Line M4250 series (L3 Lite), Gigabit and 10-Gigabit

MODEL	M4250-9G1F-POE+ GSM4210PD	M4250-8G2XF-POE GSM4210PX	M4250-10G2F-POE+ (GSM4212P)	M4250-10G2XF-POE+ (GSM4212PX)	
Port Configuration	10/100 RJ45 Ports (Auto Uplink)				
	10/100/1000 RJ45 Ports (Auto Uplink)	9	8	10	
	Fiber Ports	1 SFP	2 SFP+ (10G)	2 SFP	
PoE (Power-over-Ethernet)	PoE (15.4W) 802.3af Ports				
	PoE+ (30W) 802.3af Ports	8	8	8	
	Total PoE Budget	110W	220W	125W	
Scalability	# MAC Addresses	16,000	16,000	16,000	
	ARP Table - Size of	4,096	4,096	4,096	
	# Routing Entries	894	894	894	
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)	
System Management	Web Managed/GUI	IT GUI, AV GUI	IT GUI, AV GUI	IT GUI, AV GUI	
	Command Line Interface/RS232 Console/Telnet	✓	✓	✓	
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay	
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN	
	IPv6 full set	✓	✓	✓	
	Quality of Service	Number of Priority Queues	8	8	8
	Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	
	Auto Voice VLAN	✓	✓	✓	
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	
	IGMP Snooping Querier	✓	✓	✓	
Performance	Bandwidth	24 Gbps	24 Gbps	60 Gbps	
	Buffer Memory	16Mb	16Mb	16 Mb	
	Jumbo Frames	12,270	12,270	12,270	
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	
	RPS Redundant Power Supply				
Traffic Management	Number of 802.1q VLAN/Number of VLAN Group	4,093 / 4,093	4,093 / 4,093	4,093 / 4,093	
	Link Aggregation 802.3ad/LACP	✓	✓	✓	
	Discovery Protocol LLDP 802.1ab	✓	✓	✓	
	Rate Limiting	✓	✓	✓	
	Broadcast Storm Control	✓	✓	✓	
L3 Routing	IPv4 Static Routing	✓	✓	✓	
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	RIP v1, v2	RIP v1, v2	RIP v1, v2	
	IPv6 Static Routing, IPv6 OSPFv3	Static Routing	Static Routing	Static Routing	
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓	✓	
Security	IEEE 802.1x (RADIUS)	✓	✓	✓	
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP	
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	
	Guest VLAN	✓	✓	✓	
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	✓	
	TACACS+	✓	✓	✓	
	Energy Efficiency	IEEE 802.3az	✓	✓	✓
Auto Port Power Down	✓	✓	✓		
Dynamic Power Consumption	✓	✓	✓		
Physical	Power Consumption	132.3W	132.3W	163.9W	
	Desktop/Rack mount	Desktop	Desktop	R (reversible)	
	Metal/Plastic Enclosure	M	M	M	
	MTBF @ 25°C	1,020,808 hours	1,484,652 hours	778,769 hours	
	Fan(s)	Fanless	Side to side	Side to side	
	Acoustic Noise @ 25°C	Fanless	Fanless, Quiet mode (19.3dBA) or Cool mode (35.3dBA)	Fanless, Quiet mode (27.38dBA) or Cool mode (55dBA)	
	Width x Depth x Height	210 x 140 x 40 (8.27 x 5.51 x 1.57 in)	210 x 140 x 40 (8.27 x 5.51 x 1.57 in)	440 x 200 x 43.2 (17.32 x 7.87 x 1.70 in)	
Weight	0.965 kg (2.12 lb)	0.967 kg (2.13 lb)	2.850 kg (6.28 lb)		
Electromagnetic Compliance	Class (A or B)	A	A	A	
Warranty Hardware	Lifetime	Lifetime	Lifetime	Lifetime	
Warranty Power Supply	Lifetime	Lifetime	Lifetime	Lifetime	
Modules	AGM731/AGM732/AGM734	AGM731/AGM732/AGM734/ AXM764/AXM765v2/AXC761/ AXC765/AXC7610/AXC7620	AGM731F/AGM732F/ AGM734	AGM731F/AGM732F;AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/ AAXM765	
ProSupport Maintenance PKGS	OnCall 24x7 1-year	PMB0312-10000S	PMB0312-10000S	PMB0312-10000S	
	OnCall 24x7 3-year	PMB0332-10000S	PMB0332-10000S	PMB0332-10000S	
	OnCall 24x7 5-year	PMB0352-10000S	PMB0352-10000S	PMB0352-10000S	

# Fully Managed

## Fully Managed, AV Line M4250 series (L3 Lite), Gigabit and 10-Gigabit



MODEL		M4250-10G2XF-POE++ (GSM4212UX)	M4250-12M2XF (MSM4214X)	M4250-16XF (XSM4216F)
Port Configuration	10/100 RJ45 Ports (Auto Uplink)			
	10/100/1000 RJ45 Ports (Auto Uplink)	10	12 x 2.5G	
	Fiber Ports	2 SFP+ (10G)	2 SFP+ (10G)	16 SFP+ (10G)
PoE (Power-over-Ethernet)	PoE (15W) 802.3af Ports	4		
	Ultra90 PoE++ (90W) 802.3bt Ports	4		
	Total PoE Budget	720W		
Scalability	# MAC Addresses	16,000	16,000	16,000
	ARP Table - Size of	4,096	4,096	4,096
	# Routing Entries	894	894	894
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)
System Management	Web Managed/GUI	IT GUI, AV GUI	IT GUI, AV GUI	IT GUI, AV GUI
	Command Line Interface/RS232 Console/Telnet	✓	✓	✓
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN
	IPv6 full set	✓	✓	✓
Quality of Service	Number of Priority Queues	8	8	8
	Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
	Auto Voice VLAN	✓	✓	✓
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier	✓	✓	✓
Performance	Bandwidth	60 Gbps	100 Gbps	320 Gbps
	Buffer Memory	16Mb	16Mb	16Mb
	Jumbo Frames	12,270	12,270	12,270
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP
	RPS Redundant Power Supply			
Traffic Management	Number of 802.1q VLAN/Number of VLAN Group	4,093 / 4,093	4,093 / 4,093	4,093 / 4,093
	Link Aggregation 802.3ad/LACP	✓	✓	✓
	Discovery Protocol LLD P 802.1ab	✓	✓	✓
	Rate Limiting	✓	✓	✓
	Broadcast Storm Control	✓	✓	✓
L3 Routing	IPv4 Static Routing	✓	✓	✓
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	RIPv1/v2	RIPv1/v2	RIPv1/v2
	IPv6 Static Routing, IPv6 OSPFv3	Static Routing	Static Routing	Static Routing
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓	✓
Security	IEEE 802.1x (RADIUS)	✓	✓	✓
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS
	Guest VLAN	✓	✓	✓
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	✓
	TACACS+	✓	✓	✓
Energy Efficiency	IEEE 802.3az	✓	✓	✓
	Auto Port Power Down	✓	✓	✓
	Dynamic Power Consumption	✓	✓	✓
	Power Consumption	837.7W	37.9W	47.84W
Physical	Desktop/Rack mount	R (reversible)	R (reversible)	R (reversible)
	Metal/Plastic Enclosure	M	M	M
	MTBF @ 25°C	947,871 hours	720,892 hours	844,633 hours
	Fan(s)	Side to side	Side to side	Side to side
	Acoustic Noise @ 25°C	Fanless, Quiet mode (250w PoE, 34.57dBA) (380w PoE, 40dBA) (720w PoE, 47.19dBA) or Cool mode (57dBA)	Fanless, Quiet mode (28.5dBA) or Cool mode (55dBA)	Fanless, Quiet mode (27.44dBA) or Cool mode (57dBA)
	Width x Depth x Height	440 x 257 x 43.2 (17.32 x 10.12 x 1.70 in)	440 x 100 x 43.2 (17.32 x 3.94 x 1.70 in)	440 x 200 x 43.2 (17.32 x 7.87 x 1.70 in)
	Weight	3.830 kg (8.44 lb)	1.745 kg (3.85 lb)	2.800 kg (6.17 lb)
Electromagnetic Compliance	Class (A or B)	A	A	A
Warranty Hardware		Lifetime	Lifetime	Lifetime
Warranty Power Supply		Lifetime	Lifetime	Lifetime
Modules		AGM731F/AGM732F;AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F;AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F;AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765
ProSupport Maintenance PKGS	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0312-10000S PMB0332-10000S PMB0352-10000S	PMB0312-10000S PMB0332-10000S PMB0352-10000S	PMB0312-10000S PMB0332-10000S PMB0352-10000S

# Fully Managed

## Fully Managed, AV Line M4250 series

MODEL	M4250-26G4F-POE+ (GSM4230P)	M4250-26G4XF-POE+ (GSM4230PX)	M4250-26G4F-POE++ (GSM4230UP)		
Port Configuration	10/100 RJ45 Ports (Auto Uplink)				
	10/100/1000 RJ45 Ports (Auto Uplink)	26	26		
	Fiber Ports	4 SFP	4 SFP+ (10G)	4 SFP	
PoE (Power-over-Ethernet)	PoE (15.4W) 802.3af Ports				
	PoE+ (30W) 802.3at Ports	24	24		
	PoE++ (90W) 802.3bt Ports			24	
	Total PoE Budget	300W	480W	1,444.0W	
Scalability	# MAC Addresses	16,000	16,000	16,000	
	ARP Table - Size of	4,096	4,096	4,096	
	# Routing Entries	894	894	894	
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)	
System Management	Web Managed/GUI	IT GUI, AV GUI	IT GUI, AV GUI	IT GUI, AV GUI	
	Command Line Interface/RS232 Console/Telnet	✓	✓	✓	
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay	
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN	
	IPv6 full set	✓	✓	✓	
	Quality of Service	Number of Priority Queues	8	8	8
		Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
Auto Voice VLAN		✓	✓	✓	
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	
	IGMP Snooping Querier	✓	✓	✓	
Performance	Bandwidth	60 Gbps	132 Gbps	60 Gbps	
	Buffer Memory	16Mb	16Mb	16Mb	
	Jumbo Frames	12,270	12,270	12,270	
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	
	RPS Redundant Power Supply				
Traffic Management	Number of 802.1q VLAN/Number of VLAN Group	4,093 / 4,093	4,093 / 4,093	4,093 / 4,093	
	Link Aggregation 802.3ad/LACP	✓	✓	✓	
	Discovery Protocol LLDP 802.1ab	✓	✓	✓	
	Rate Limiting	✓	✓	✓	
	Broadcast Storm Control	✓	✓	✓	
L3 Routing	IPv4 Static Routing	✓	✓	✓	
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	RIPv1/v2	RIPv1/v2	RIPv1/v2	
	IPv6 Static Routing, IPv6 OSPFv3	Static Routing	Static Routing	Static Routing	
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓	✓	
Security	IEEE 802.1x (RADIUS)	✓	✓	✓	
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP	
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	
	Guest VLAN	✓	✓	✓	
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	✓	
	TACACS+	✓	✓	✓	
Energy Efficiency	IEEE 802.3az	✓	✓	✓	
	Auto Port Power Down	✓	✓	✓	
	Dynamic Power Consumption	✓	✓	✓	
	Power Consumption	401W	614W	1734W	
Physical	Desktop/Rack mount	R (reversible)	R (reversible)	R (reversible)	
	Metal/Plastic Enclosure	M	M	M	
	MTBF @ 25°C	511,054 hours	491,282 hours	509,057 hours	
	Fan(s)	Side to side	Side to side	Side to side	
	Acoustic Noise @ 25°C	Fanless, Quiet mode (200W PoE, 28dBA; 300W PoE, 34dBA) or Cool Mode (57dBA)	Fanless, Quiet mode (350W PoE, 25dBA; 480W PoE, 42dBA) or Cool Mode (67dBA)	Quiet mode (280W PoE, 28dBA; 480W PoE, 47dBA; 1440W PoE, 60dBA) or Cool Mode (69dBA)	
	Width x Depth x Height	440 x 257 x 43.2 mm (17.32 x 10.12 x 1.70 in)	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	
	Weight	4.300 kg (9.47 lb)	5.453 kg (12.02 lb)	6.746 kg (14.87 lb)	
Electromagnetic Compliance	Class (A or B)	A	A	A	
Warranty Hardware	Lifetime	Lifetime	Lifetime	Lifetime	
Warranty Power Supply	Lifetime	Lifetime	Lifetime	Lifetime	
Modules	AGM731F/AGM732F/AGM734	AGM731F/AGM732F: AXC761/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F/AGM734		
ProSupport Maintenance PKGS	OnCall 24x7 1-year	PMB0312-10000S	PMB0313-10000S	PMB0313-10000S	
	OnCall 24x7 3-year	PMB0332-10000S	PMB0333-10000S	PMB0333-10000S	
	OnCall 24x7 5-year	PMB0352-10000S	PMB0353-10000S	PMB0353-10000S	

# Fully Managed

## Fully Managed, AV Line M4250 series

MODEL	M4250-40G8F-POE+ (GSM4248P)	M4250-40G8XF-POE+ (GSM4248PX)	M4250-40G8XF-POE++ (GSM4248UX)	
Port Configuration	10/100 RJ45 Ports (Auto Uplink)			
	10/100/1000 RJ45 Ports (Auto Uplink)	40	40	
	Fiber Ports	8 SFP	8 SFP+ (10G)	
PoE (Power-over-Ethernet)	PoE (15.4W) 802.3af Ports			
	PoE+ (30W) 802.3at Ports	40	40	
	PoE++ (90W) 802.3bt Ports			
	Total PoEBudget	480W	960W	2,880W
Scalability	# MAC Addresses	16,000	16,000	16,000
	ARP Table - Size of	4,096	4,096	4,096
	# Routing Entries	894	894	894
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)
System Management	Web Managed/GUI	IT GUI, AV GUI	IT GUI, AV GUI	IT GUI, AV GUI
	Command Line Interface/RS232 Console/Telnet	✓	✓	✓
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN
	IPv6 full set	✓	✓	✓
	Quality of Service	Number of Priority Queues	8	8
Traffic Prioritization		802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
Auto Voice VLAN		✓	✓	✓
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier	✓	✓	✓
Performance	Bandwidth	96 Gbps	240 Gbps	240 Gbps
	Buffer Memory	32Mb	32Mb	32Mb
	Jumbo Frames	12,270	12,270	12,270
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP
	RPS Redundant Power Supply			
Traffic Management	Number of 802.1q VLAN/Number of VLAN Group	4,093 / 4,093	4,093 / 4,093	4,093 / 4,093
	Link Aggregation 802.3ad/LACP	✓	✓	✓
	Discovery Protocol LLDP 802.1ab	✓	✓	✓
	Rate Limiting	✓	✓	✓
	Broadcast Storm Control	✓	✓	✓
L3 Routing	IPv4 Static Routing	✓	✓	✓
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	RIPv1/v2	RIPv1/v2	RIPv1/v2
	IPv6 Static Routing, IPv6 OSPFv3	Static Routing	Static Routing	Static Routing
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓	✓
Security	IEEE 802.1x (RADIUS)	✓	✓	✓
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS
	Guest VLAN	✓	✓	✓
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	✓
	TACACS+	✓	✓	✓
	Energy Efficiency	IEEE 802.3az	✓	✓
Auto Port Power Down		✓	✓	✓
Dynamic Power Consumption		✓	✓	✓
Power Consumption		624.8W	1197W	3523W
Physical	Desktop/Rack mount	R (reversible)	R (reversible)	R (reversible)
	Metal/Plastic Enclosure	M	M	M
	MTBF @ 25°C	341,680 hours	487,900 hours	304,916 hours
	Fan(s)	Side to side	Side to side	Side to side
	Acoustic Noise @ 25°C	Fanless, Quiet mode (150W PoE, 30dBA; 340W PoE, 40dBA; 480W PoE, 47dBA) or Cool Mode (68dBA)	Quiet mode (400W PoE, 29dBA; 640W PoE, 48dBA; 960W PoE, 59dBA) or Cool Mode (69dBA)	Quiet mode (160W PoE, 30dBA; 480W PoE, 51dBA; 2880W PoE, 60dBA) or Cool Mode (71dBA)
	Width x Depth x Height	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	440 x 350 x 86.4 mm (17.32 x 13.78 x 3.40 in)
	Weight	5.852 kg (12.90 lb)	6.312 kg (13.91 lb)	10.280 kg (22.72 lb)
Electromagnetic Compliance	Class (A or B)	A	A	A
Warranty Hardware	Lifetime	Lifetime	Lifetime	
Warranty Power Supply	Lifetime	Lifetime	Lifetime	
Modules	AGM731F/AGM732F/AGM734	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	
ProSupport Maintenance PKGS	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0313-10000S PMB0333-10000S PMB0353-10000S	PMB0313-10000S PMB0333-10000S PMB0353-10000S	

# Fully Managed

## Fully Managed, M4300 series (L3), Gigabit and 10-Gigabit



MODEL		M4300-8X8F (XSM4316S)	M4300-16X (XSM4316PA OR XSM4316PB)	M4300-24X (XSM4324CS)	
Port Configuration	10/100/1000 RJ45 Ports (Auto Uplink)	8 10GBASE-T	16 10GBASE-T	24 10GBASE-T	
	Fiber Ports	8 SFP+ (10G)		4 combo SFP+ (10G)	
	10Gig Module Bays				
PoE (Power-over-Ethernet)	PoE (15.4W) 802.3af Ports		16		
	PoE+ (30W) 802.3af Ports				
	Total PoE Budget		199W (PA)/500W (PB) APS199W or APS600W		
Stacking	Number of Dedicated Stacking Ports	Up to 16 10G ports	Up to 16 10G ports	Up to 16 10G ports	
	Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps	
	Stacking (maximum capacity)	8 switches	8 switches	8 switches	
	Stacking Compatibility	M4300 series	M4300 series	M4300 series	
Scalability	# MAC Addresses	16,000	16,000	16,000	
	ARP Table - Size of	888	888	888	
	# Routing Entries	12,000	12,000	12,000	
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)	
System Management	Single IP Management	✓	✓	✓	
	Web Managed/GUI	✓	✓	✓	
	Command Line Interface/RS232 Console/Telnet	✓	✓	✓	
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay	
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN	
	IPv6 full set	✓	✓	✓	
	Quality of Service	Number of Priority Queues	8	8	8
		Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
Auto Voice VLAN		✓	✓	✓	
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	
	IGMP Snooping Querier	✓	✓	✓	
Performance	Bandwidth	320 Gbps	320 Gbps	480 Gbps	
	Buffer Memory	16 Mb	16 Mb	32 Mb	
	Jumbo Frames	9,198	9,198	9,198	
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	
	RPS Redundant Power Supply				
	Modular Power Supply	APS250W	APS199W (PA) or APS600W (PB)	APS250W	
Traffic Management	Number of 802.1q VLAN/Number of VLAN Group	4,093/4,093	4,093/4,093	4,093 / 4,093	
	Link Aggregation 802.3ad/LACP	✓	✓	✓	
	Discovery Protocol LLDP 802.1ab	✓	✓	✓	
	Rate Limiting	✓	✓	✓	
	Broadcast Storm Control	✓	✓	✓	
L3 Routing	IPv4 Static Routing	✓	✓	✓	
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	✓	✓	✓	
	IPv6 Static Routing, IPv6 OSPFv3	✓	✓	✓	
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓	✓	
Security	IEEE 802.1x (RADIUS)	✓	✓	✓	
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP	
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	
	Guest VLAN	✓	✓	✓	
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	✓	
	TACACS+	✓	✓	✓	
	Energy Efficiency	IEEE 802.3az	✓	✓	✓
Auto Port Power Down		✓	✓	✓	
Dynamic Power Consumption		✓	✓	✓	
Power Consumption		49W	308.7W (PA) 610W (PB)	125W	
Physical	Desktop/Rack mount	Rack mount	Rack mount	Rack mount	
	Metal/Plastic Enclosure	Metal	Metal	Metal	
	MTBF @ 25°C	196,120 hrs	690,301 hours	247,437 hrs	
	Fan(s)	Front to back	Front to back	Front to back	
	Acoustic Noise @ 25°C	36.9dBA	35dBA	37dBA	
	Width x Depth x Height	Half-Width: 212 x 345 x 44 mm (8.35 x 13.58 x 1.73 in)	Half-Width: 212 x 345 x 44 mm (8.35 x 13.58 x 1.73 in)	Half-Width: 212 x 345 x 44 mm (8.35 x 13.58 x 1.73 in)	
	Weight	3.32kg (7.31lb)	3.22 kg (7.11 lb)	4.14 kg (9.12 lb)	
Electromagnetic Compliance	Class (A or B)	A	A	A	
Warranty Hardware		Lifetime	Lifetime	Lifetime	
Warranty Power Supply		Lifetime	Lifetime	Lifetime	
Modules		AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	
ProSupport Maintenance PKGS	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0313-10000S PMB0333-10000S PMB0353-10000S	PMB0313-10000S PMB0333-10000S PMB0353-10000S	PMB0314-10000S PMB0334-10000S PMB0354-10000S	

# Fully Managed

## Fully Managed, M4300 series (L3), Gigabit and 10-Gigabit

MODEL	M4300-28G-POE+ (GSM4328PA OR GSM4328PB)	M4300-52G-POE+ (GSM4352PA OR GSM4352PB)		
Port Configuration	10/100/1000 RJ45 Ports (Auto Uplink)	24 / 2 10GBASE-T	48 / 2 10GBASE-T	
	Fiber Ports	2 SFP+ (10G)	2 SFP+ (10G)	
	10Gig Module Bays			
PoE (Power-over-Ethernet)	PoE (15.4W) 802.3af Ports			
	PoE+ (30W) 802.3at Ports	24	48	
	Total PoE Budget	480W (PA)/630W (PB) Up to 720W with second PSU	480W (PA) or 591W (PB) Up to 1,440W with second PSU	
Stacking	Number of Dedicated Stacking Ports	Up to 4 10G ports	Up to 4 10G ports	
	Stacking Bandwidth	80 Gbps	80 Gbps	
	Stacking (maximum capacity)	8 switches	8 switches	
	Stacking Compatibility	M4300 series	M4300 series	
Scalability	# MAC Addresses	16,000	16,000	
	ARP Table - Size of	888	888	
	# Routing Entries	12,000	12,000	
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	
System Management	Single IP Management	✓	✓	
	Web Managed/GUI	✓	✓	
	Command Line Interface/RS232 Console/Telnet	✓	✓	
	SNMP Version	v1, v2c, v3	v1, v2c, v3	
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	
	IPv6 full set	✓	✓	
	Quality of Service	Number of Priority Queues	8	8
		Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
Auto Voice VLAN		✓	✓	
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	
	IGMP Snooping Querier	✓	✓	
Performance	Bandwidth	128 Gbps	176 Gbps	
	Buffer Memory	16 Mb	16 Mb	
	Jumbo Frames	9,198	9,198	
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	
	RPS Redundant Power Supply	Second optional APS550W (PA) Second optional APS1000W (PB)	Second optional APS550W (PA) Second optional APS1000W (PB)	
	Modular Power Supply	APS550W (PA) or APS1000W (PB)	APS550W (PA) or APS1000W (PB)	
Traffic Management	Number of 802.1q VLAN/Number of VLAN Group	4,093/4,093	4,093/4,093	
	Link Aggregation 802.3ad/LACP	✓	✓	
	Discovery Protocol LLDP 802.1ab	✓	✓	
	Rate Limiting	✓	✓	
	Broadcast Storm Control	✓	✓	
L3 Routing	IPv4 Static Routing	✓	✓	
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	✓	✓	
	IPv6 Static Routing, IPv6 OSPFv3	✓	✓	
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓	
Security	IEEE 802.1x (RADIUS)	✓	✓	
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	
	Guest VLAN	✓	✓	
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	
Energy Efficiency	TACACS+	✓	✓	
	IEEE 802.3az	✓	✓	
	Auto Port Power Down	✓	✓	
	Dynamic Power Consumption	✓	✓	
Physical	Power Consumption	577W (PA 1 PSU) 833.2W (PB 1 PSU)	609W (PA 1 PSU) 888W (PB 1 PSU)	
	Desktop/Rackmount	Rackmount	Rackmount	
	Metal/Plastic Enclosure	Metal	Metal	
	MTBF @ 25°C	1,189,685 hrs	673,207 hrs	
	Fan(s)	Front to back	Front to back	
	Acoustic Noise @ 25°C	39.8dBA	39.8dBA	
	Width x Depth x Height	440 x 310 x 44 mm (17.32 x 12.2 x 1.73 in)	440 x 380 x 44 mm (17.32 x 15.28 x 1.73 in)	
	Weight	5.09 kg (11.21 lb)	6.55 kg (14.44 lb)	
	Electromagnetic Compliance	Class (A or B)	A	
	Warranty Hardware	Lifetime	Lifetime	
Warranty Power Supply	Lifetime	Lifetime		
Modules	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765		
ProSupport Maintenance PKGS	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0313-10000S PMB0333-10000S PMB0353-10000S	PMB0313-10000S PMB0333-10000S PMB0353-10000S	

# Fully Managed





## Fully Managed, M4300 series (L3), Gigabit and 10-Gigabit



MODEL		M4300-24X24F (XSM4348S)	M4300-48X (XSM4348CS)
Port Configuration	10/100/1000 RJ45 Ports (Auto Uplink)	24 10GBASE-T	48 10GBASE-T
	Fiber Ports	24 SFP+ (10G)	4 combo SFP+ (10G)
	10Gig Module Bays		
PoE (Power-over-Ethernet)	PoE (15.4W) 802.3af Ports		
	PoE+ (30W) 802.3at Ports		
	Total PoE Budget		
Stacking	Number of Dedicated Stacking Ports	Up to 16 10G ports	Up to 16 10G ports
	Stacking Bandwidth	320 Gbps	320 Gbps
	Stacking (maximum capacity)	8 switches	8 switches
	Stacking Compatibility	M4300 series	M4300 series
Scalability	# MAC Addresses	128,000	128,000
	ARP Table - Size of	8,192	8,192
	# Routing Entries	12,000	12,000
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)
System Management	Single IP Management	✓	✓
	Web Managed/GUI	✓	✓
	Command Line Interface/RS232 Console/Telnet	✓	✓
	SNMP Version	v1, v2c, v3	v1, v2c, v3
	RMON Group	1, 2, 3, 9	1, 2, 3, 9
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN
	IPv6 full set	✓	✓
Quality of Service	Number of Priority Queues	8	8
	Traffic Prioritization	802.1p ; Diffserv ; TCP/UDP	802.1p; Diffserv; TCP/UDP
	Auto Voice VLAN	✓	✓
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier	✓	✓
Performance	Bandwidth	960 Gbps	960 Gbps
	Buffer Memory	56 Mb	56 Mb
	Jumbo Frames	9,198	9,198
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP
	RPS Redundant Power Supply	Second optional APS250W	Second optional APS250W
	Modular Power Supply	APS250W	APS250W
Traffic Management	Number of 802.1q VLAN/Number of VLAN Group	4,093 / 4,093	4,093 / 4,093
	Link Aggregation 802.3ad/LACP	✓	✓
	Discovery Protocol LLDP 802.1ab	✓	✓
	Rate Limiting	✓	✓
	Broadcast Storm Control	✓	✓
L3 Routing	IPv4 Static Routing	✓	✓
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	✓	✓
	IPv6 Static Routing, IPv6 OSPFv3	✓	✓
Security	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓
	IEEE 802.1x (RADIUS)	✓	✓
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS
	Guest VLAN	✓	✓
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓
Energy Efficiency	TACACS+	✓	✓
	IEEE 802.3az	✓	✓
	Auto Port Power Down	✓	✓
	Dynamic Power Consumption	✓	✓
Physical	Power Consumption	161W	237.2W
	Desktop/Rackmount	Rackmount	R
	Metal/Plastic Enclosure	Metal	Metal
	MTBF @ 25°C	133,176 hrs	249,393 hrs
	Fan(s)	Front to back	Front to back
	Acoustic Noise @ 25°C	35.8dBA	40.3dBA
	Width x Depth x Height	440 x 345 x 44 mm (17.32 x 13.58 x 1.73 in)	440 x 345 x 44 mm (17.32 x 13.58 x 1.73 in)
	Weight	6.12 kg (13.48 lb)	6.55 kg (14.44 lb)
Electromagnetic Compliance	Class (A or B)	A	A
Warranty Hardware		Lifetime	Lifetime
Warranty Power Supply		Lifetime	Lifetime
Modules		AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765
ProSupport Maintenance PKGS	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0314-10000S PMB0334-10000S PMB0354-10000S	PMB0314-10000S PMB0334-10000S PMB0354-10000S

# Fully Managed

Fully Managed, M4350 series (L3), Gigabit, 2.5, 10, 25 and 100-Gigabit

					
MODEL		M4350-24G4XF (GSM4328)	M4350-48G4XF (GSM4352)	M4350-8M2V (MSM4310)	M4350-24M4X4V (MSM4332)
Port Configuration	10/100 RJ45 Ports (Auto Uplink)	0			
	10/100/1000 RJ45 Ports (Auto Uplink)	24	48	8x1G/2.5G	24x1G/2.5G, 4x1G/2.5G/5G/10G
	Fiber Ports	4 SFP+ (10G)	4 SFP+ (10G)	2 SFP28 (10G/25G)	4 SFP28 (10G/25G)
PoE (Power-over-Ethernet)	PoE (15W) 802.3af Ports				
	PoE+ (30W) 802.3af Ports	24	48		
	PoE++ (90W) 802.3bt Ports			8	28
	Total PoE Budget	648W (base) up to 720W	236W (base) up to 1,440W	119W (base) up to 551W	522W (base) up to 2,520W
Scalability	# MAC Addresses	16,000	16,000	16,000	16,000
	ARP Table - Size of	4,096	4,096	4,096	4,096
	# Routing Entries	894	894	894	894
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)
System Management	Web Managed/GUI	IT GUI, AV GUI	IT GUI, AV GUI	IT GUI, AV GUI	IT GUI, AV GUI
	Command Line Interface/RS232 Console/Telnet	✓	✓	✓	✓
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN
	IPv6 full set	✓	✓	✓	✓
Quality of Service	Number of Priority Queues	8	8	8	8
	Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
	Auto Voice VLAN	✓	✓	✓	✓
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier	✓	✓	✓	✓
Performance	Bandwidth	128 Gbps	176 Gbps	140 Gbps	400 Gbps
	Buffer Memory	16Mb	32Mb	32Mb	32Mb
	Jumbo Frames	12K	12K	12K	12K
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s RPS Redundant Power Supply	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP
Traffic Management	Number of 802.1q VLAN/#. of VLAN Group	4,093 / 4,093	4,093 / 4,093	4,093 / 4,093	4,093 / 4,093
	Link Aggregation 802.3ad/LACP	✓	✓	✓	✓
	Discovery Protocol LLDP 802.1ab	✓	✓	✓	✓
	Rate Limiting	✓	✓	✓	✓
	Broadcast Storm Control	✓	✓	✓	✓
L3 Routing	IPv4 Static Routing	✓	✓	✓	✓
	IPv4 RIPV1/2, OSPFV1/2, VRRP, EMCP	✓	✓	✓	✓
	IPv6 Static Routing, IPv6 OSPFv3	✓	✓	✓	✓
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓	✓	✓
Security	IEEE 802.1x (RADIUS)	✓	✓	✓	✓
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS
	Guest VLAN	✓	✓	✓	✓
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	✓	✓
Energy Efficiency	TACACS+	✓	✓	✓	✓
	IEEE 802.3az	✓	✓	✓	✓
	Auto Port Power Down	✓	✓	✓	✓
	Dynamic Power Budget Allocation	✓	✓	✓	✓
Physical	Power Consumption	80W (no PoE) 871.2W (max PoE)	99W (no PoE) 1,618.3W (max PoE)	82W (no PoE) 682W (max PoE)	123.4W (no PoE) 2,845W (max PoE)
	Desktop/Rackmount/Click	R	R	R	R
	Metal/Plastic Enclosure	M	M	M	M
	MTBF at 25°C	782,376 hours	623,591 hours	415,986 hours	377,861 hours
	Fan	Front to back	Front to back	Front to back	Front to back
	Acoustic Noise at 25°C	Quiet mode (33dBA) or Cool mode (52dBA)	Quiet mode (33dBA) or Cool mode (52dBA)	Quiet mode (34dBA) or Cool mode (52dBA)	Quiet mode (34dBA) or Cool mode (52dBA)
	Width x Depth x Height	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	220 x 300 x 43.2 mm (8.66 x 11.81 x 1.70 in)	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)
Weight	6.41 kg (14.13 lb)	7.19 kg (15.85 lb)	2.9 kg (6.39 lb)	7.38 kg (16.26 lb)	
Electromagnetic Compliance (Class A or B)	A	A	A	A	
Warranty Hardware*	Lifetime	Lifetime	Lifetime	Lifetime	
Warranty Power Supply	Lifetime	Lifetime	Lifetime	Lifetime	
Modules	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/ AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/ AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/ AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/ AXM765	
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0313 PMB0333 PMB0353	PMB0313 PMB0333 PMB0353	PMB0313 PMB0333 PMB0353	

# Fully Managed

Fully Managed, M4350 series (L3), Gigabit, 2.5, 10, 25 and 100-Gigabit

MODEL	M4350-44M4X4V (MSM4352)	M4350-24G4XF (GSM4328)	M4350-8X8F (XSM4316)	M4350-12X12F (XSM4324)	
Port Configuration	10/100 RJ45 Ports (Auto Uplink)				
	10/100/1000 RJ45 Ports (Auto Uplink)	44x1G/2.5G, 4x1G/2.5G/5G/10G	4x1G/2.5G/5G/10G (Combo with the 4 SFP+)	8x1G/2.5G/5G/10G	
	Fiber Ports	4 SFP28 (10G/25G)	24 SFP (1G/2.5G) 4 SFP+ (10G)	8 SFP+ (10G)	
PoE (Power-over-Ethernet)	PoE (15W) 802.3af Ports				
	PoE+ (30W) 802.3af Ports				
	PoE+ (90W) 802.3bt Ports	48			
Scalability	Total PoE Budget	194W (base) up to 3,314W			
	# MAC Addresses	16,000	16,000	16,000	
	ARP Table - Size of	4,096	4,096	4,096	
	# Routing Entries	894	894	894	
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)	
System Management	Web Managed/GUI	IT GUI, AV GUI	IT GUI, AV GUI	IT GUI, AV GUI	
	Command Line Interface/RS232 Console/Telnet	✓	✓	✓	
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay	
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN	
	IPv6 full set	✓	✓	✓	
	Quality of Service	Number of Priority Queues	8	8	8
		Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
		Auto Voice VLAN	✓	✓	✓
IGMP Snooping Version		v1, v2, v3	v1, v2, v3	v1, v2, v3	
Multicast Filtering	IGMP Snooping Querier	✓	✓	✓	
	IGMP Snooping Querier	✓	✓	✓	
Performance	Bandwidth	500 Gbps	200 Gbps	320 Gbps	
	Buffer Memory	32Mb	16Mb	32Mb	
	Jumbo Frames	12K	12K	12K	
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	
	RPS Redundant Power Supply				
Traffic Management	Number of 802.1q VLAN/#. of VLAN Group	4,093 / 4,093	4,093 / 4,093	4,093 / 4,093	
	Link Agregation 802.3ad/LACP	✓	✓	✓	
	Discovery Protocol LLDP 802.1ab	✓	✓	✓	
	Rate Limiting	✓	✓	✓	
	Broadcast Storm Control	✓	✓	✓	
L3 Routing	IPv4 Static Routing	✓	✓	✓	
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	✓	✓	✓	
	IPv6 Static Routing, IPv6 OSPFv3	✓	✓	✓	
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓	✓	
Security	IEEE 802.1x (RADIUS)	✓	✓	✓	
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP	
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	
	Guest VLAN	✓	✓	✓	
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	✓	
	TACACS+	✓	✓	✓	
Energy Efficiency	IEEE 802.3az	✓	✓	✓	
	Auto Port Power Down	✓	✓	✓	
	Dynamic Power Budget Allocation	✓	✓	✓	
	Power Consumption	133.5W (no PoE) 3,857.5W (max PoE)	115.5W	81.1W	
Physical	Desktop/Rackmount/Click	R	R	R	
	Metal/Plastic Enclosure	M	M	M	
	MTBF at 25°C	320,552 hours	795,845 hours	1,101,630 hours	
	Fan	Front to back	Front to back	Front to back	
	Acoustic Noise at 25°C	Quiet mode (34dBA) or Cool mode (52dBA)	Quiet mode (34, 2dBA) or Cool mode (66.9dBA)	Quiet mode (34, 43dBA) or Cool mode (56, 3dBA)	
	Width x Depth x Height	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	220 x 400 x 43.2 mm (8.66 x 15.75 x 1.70 in)	
	Weight	7.34 kg (16.18 lb)	7.38 kg (16.26 lb)	4.05 kg (8.93 lb)	
Electromagnetic Compliance	(Class A or B)	A	A		
Warranty Hardware*	Lifetime	Lifetime	Lifetime		
Warranty Power Supply	Lifetime	Lifetime	Lifetime		
Modules	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0313 PMB0333 PMB0353	PMB0313 PMB0333 PMB0353	PMB0313 PMB0333 PMB0353	

# Fully Managed

## Fully Managed, M4350 series (L3), Gigabit, 2.5, 10, 25 and 100-Gigabit

MODEL	M4350-24X4V (XSM4328CV)	M4350-24F4V (XSM4328FV)	M4350-36X4V (XSM4340CV)	M4350-24X8F8V (XSM4340V)
Port Configuration	10/100 RJ45 Ports (Auto Uplink)			
	10/100/1000 RJ45 Ports (Auto Uplink)		24x1G/2.5G/5G/10G	
	Fiber Ports		4 SFP28 (10G/25G)	
PoE (Power-over-Ethernet)	PoE (15W) 802.3af Ports			
	PoE+ (30W) 802.3af Ports		24	
	PoE++ (90W) 802.3bt Ports		36	
Scalability	Total PoE Budget			
	576W (base) up to 720W		280W (base) up to 1,760W	
	290W (base) up to 1,770W		290W (base) up to 1,770W	
	# MAC Addresses		16,000	
	ARP Table - Size of		4,096	
System Management	# Routing Entries			
	894		894	
	# ACL Rules			
	16,384 (ingress, egress)		16,384 (ingress, egress)	
	16,384 (ingress, egress)		16,384 (ingress, egress)	
Quality of Service	Web Managed/GUI			
	IT GUI, AV GUI		IT GUI, AV GUI	
	Command Line Interface/RS232 Console/Telnet			
	SNMP Version			
	v1, v2c, v3		v1, v2c, v3	
	v1, v2c, v3		v1, v2c, v3	
	RMON Group			
	1, 2, 3, 9		1, 2, 3, 9	
	DHCP (Client/Server/Relay)			
	Client/Server/L3 Relay		Client/Server/L3 Relay	
Multicast Filtering	Port Mirroring			
	Many-to-One; RSPAN		Many-to-One; RSPAN	
	Many-to-One; RSPAN		Many-to-One; RSPAN	
Performance	IPv6 full set			
	✓		✓	
	✓		✓	
Availability	Number of Priority Queues			
	8		8	
	8		8	
Traffic Management	Traffic Prioritization			
	802.1p; Diffserv; TCP/UDP		802.1p; Diffserv; TCP/UDP	
	802.1p; Diffserv; TCP/UDP		802.1p; Diffserv; TCP/UDP	
L3 Routing	Auto Voice VLAN			
	✓		✓	
	✓		✓	
Security	IGMP Snooping Version			
	v1, v2, v3		v1, v2, v3	
	v1, v2, v3		v1, v2, v3	
Energy Efficiency	IGMP Snooping Querier			
	✓		✓	
	✓		✓	
Physical	Bandwidth			
	680 Gbps		680 Gbps	
	680 Gbps		920 Gbps	
Warranty Hardware*	Buffer Memory			
	32Mb		32Mb	
	32Mb		64Mb	
Warranty Power Supply	Jumbo Frames			
	12K		12K	
	12K		12K	
Modules	Spanning Tree 802.1d/RSTP .1w/MSTP .1s			
	802.1d, .1w, .1s; PV(R)STP		802.1d, .1w, .1s; PV(R)STP	
	802.1d, .1w, .1s; PV(R)STP		802.1d, .1w, .1s; PV(R)STP	
ProSUPPORT Maintenance Contracts***	RPS Redundant Power Supply			
	Number of 802.1q VLAN/#. of VLAN Group		4,093 / 4,093	
	4,093 / 4,093		4,093 / 4,093	
Electromagnetic Compliance	Link Agregation 802.3ad/LACP			
	✓		✓	
	✓		✓	
Warranty Hardware*	Discovery Protocol LLDP 802.1ab			
	✓		✓	
	✓		✓	
Warranty Power Supply	Rate Limiting			
	✓		✓	
	✓		✓	
Modules	Broadcast Storm Control			
	✓		✓	
	✓		✓	
ProSUPPORT Maintenance Contracts***	IPv4 Static Routing			
	✓		✓	
	✓		✓	
Electromagnetic Compliance	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP			
	✓		✓	
	✓		✓	
Warranty Hardware*	IPv6 Static Routing, IPv6 OSPFv3			
	✓		✓	
	✓		✓	
Warranty Power Supply	IPv4 / IPv6 Multicast Routing PIM-SM/DM			
	✓		✓	
	✓		✓	
Modules	IEEE 802.1x (RADIUS)			
	✓		✓	
	✓		✓	
ProSUPPORT Maintenance Contracts***	ACL - Access Control Lists			
	MAC, IP, TCP		MAC, IP, TCP	
	MAC, IP, TCP		MAC, IP, TCP	
Electromagnetic Compliance	SSL/SSH & HTTPS			
	SSL/SSH & HTTPS		SSL/SSH & HTTPS	
	SSL/SSH & HTTPS		SSL/SSH & HTTPS	
Warranty Hardware*	Guest VLAN			
	✓		✓	
	✓		✓	
Warranty Power Supply	DHCP Snooping/IP Source Guard/ARP Guard			
	✓		✓	
	✓		✓	
Modules	TACACS+			
	✓		✓	
	✓		✓	
ProSUPPORT Maintenance Contracts***	IEEE 802.3az			
	✓		✓	
	✓		✓	
Electromagnetic Compliance	Auto Port Power Down			
	✓		✓	
	✓		✓	
Warranty Hardware*	Dynamic Power Budget Allocation			
	✓		✓	
	✓		✓	
Warranty Power Supply	Power Consumption			
	119.4W (no PoE) 907.8W (max PoE)		119.3W	
	119.3W		148W (no PoE) 2,071.4W (max PoE)	
Modules	Desktop/Rackmount/Click			
	R		R	
	R		R	
ProSUPPORT Maintenance Contracts***	Metal/Plastic Enclosure			
	M		M	
	M		M	
Electromagnetic Compliance	MTBF at 25°C			
	486,832 hours		778,741 hours	
	778,741 hours		292,505 hours	
Warranty Hardware*	Fan			
	Front to back		Front to back	
	Front to back		Front to back	
Warranty Power Supply	Acoustic Noise at 25°C			
	Quiet mode (34.7dBA) or Cool mode (57.2dBA)		Quiet mode (34.2dBA) or Cool mode (61.8dBA)	
	Quiet mode (32.1dBA) or Cool mode (54dBA)		Quiet mode (32.6dBA) or Cool mode (53.3dBA)	
Modules	Width x Depth x Height			
	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)		440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	
	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)		440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	
ProSUPPORT Maintenance Contracts***	Weight			
	6.58 kg (14.51 lb)		6.25 kg (13.78 lb)	
	6.25 kg (13.78 lb)		7.33kg (16.16 lb)	
Electromagnetic Compliance	Class A or B			
	A		A	
	A		A	
Warranty Hardware*	Lifetime			
	Lifetime		Lifetime	
	Lifetime		Lifetime	
Warranty Power Supply	Lifetime			
	Lifetime		Lifetime	
	Lifetime		Lifetime	
Modules	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765			
	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765		AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	
	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765		AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/AXM765	
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year			
	PMB0313		PMB0314	
	PMB0333		PMB0334	
Electromagnetic Compliance	OnCall 24x7 3-year			
	PMB0333		PMB0334	
	PMB0353		PMB0354	
Warranty Hardware*	OnCall 24x7 5-year			
	PMB0353		PMB0354	
	PMB0353		PMB0354	

# Fully Managed

Fully Managed, M4350 series (L3), Gigabit, 2.5, 10, 25 and 100-Gigabit

MODEL	M4350-32F8V (XSM4340FV)	M4350-16V4C (VSM4320C)	M4350-40X4C (XSM4344C)	M4350-40F4C (XSM4344FC)	
Port Configuration	10/100 RJ45 Ports (Auto Uplink)				
	10/100/1000 RJ45 Ports (Auto Uplink)		40x1G/2.5G/5G/10G		
	Fiber Ports	32 SFP+ (10G) 8 SFP28 (10/25G)	16 SFP28 (10G/25G) 4 QSFP28 (100G)	4 QSFP28 (100G)	40 SFP+ (10G) 4 QSFP28 (100G)
PoE (Power-over-Ethernet)	PoE (15W) 802.3af Ports				
	PoE+ (30W) 802.3af Ports				
	PoE++ (90W) 802.3bt Ports			40	
Scalability	Total PoE Budget	196W (base) up to 1,676W			
	# MAC Addresses	16,000	16,000	16,000	16,000
	ARP Table – Size of	4,096	4,096	4,096	4,096
	# Routing Entries	894	894	894	894
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)	16,384 (ingress, egress)
System Management	Web Managed/GUI	IT GUI, AV GUI	IT GUI, AV GUI	IT GUI, AV GUI	IT GUI, AV GUI
	Command Line Interface/RS232 Console/Telnet	✓	✓	✓	✓
	SNMP Version	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay	Client/Server/L3 Relay
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN	Many-to-One; RSPAN
	IPv6 full set	✓	✓	✓	✓
Quality of Service	Number of Priority Queues	8	8	8	8
	Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
	Auto Voice VLAN	✓	✓	✓	✓
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	IGMP Snooping Querier	✓	✓	✓	✓
Performance	Bandwidth	1.04 Tbps	1.6 Tbps	1.6 Tbps	1.6 Tbps
	Buffer Memory	64Mb	256Mb	256Mb	256Mb
	Jumbo Frames	12K	12K	12K	12K
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP	802.1d, .1w, .1s; PV(R)STP
	RPS Redundant Power Supply	✓			
Traffic Management	Number of 802.1q VLAN/#. of VLAN Group	4,093 / 4,093	4,093 / 4,093	4,093 / 4,093	4,093 / 4,093
	Link Aggregation 802.3ad/LACP	✓	✓	✓	✓
	Discovery Protocol LLDP 802.1ab	✓	✓	✓	✓
	Rate Limiting	✓	✓	✓	✓
	Broadcast Storm Control	✓	✓	✓	✓
L3 Routing	IPv4 Static Routing	✓	✓	✓	✓
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	✓	✓	✓	✓
	IPv6 Static Routing, IPv6 OSPFv3	✓	✓	✓	✓
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	✓	✓	✓	✓
Security	IEEE 802.1x (RADIUS)	✓	✓	✓	✓
	ACL – Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP	MAC, IP, TCP
	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS	SSL/SSH & HTTPS
	Guest VLAN	✓	✓	✓	✓
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	✓	✓
Energy Efficiency	TACACS+	✓	✓	✓	✓
	IEEE 802.3az	✓	✓	✓	✓
	Auto Port Power Down	✓	✓	✓	✓
	Dynamic Power Budget Allocation	✓	✓	✓	✓
Physical	Power Consumption	156.4W	143.4W	200.4W (no PoE) 2,018.3W (max PoE)	213.6W
	Desktop/Rackmount/Click	R	R	R	R
	Metal/Plastic Enclosure	M	M	M	M
	MTBF at 25°C	582,420 hours	518,782 hours	229,375 hours	380,163 hours
	Fan	Front to back	Front to back	Front to back	Front to back
	Acoustic Noise at 25°C	Quiet mode (32.7dBA) or Cool mode (63dBA)	Quiet mode (36.4dBA) or Cool mode (55dBA)	Quiet mode (34.1dBA) or Cool mode (54.3dBA)	Quiet mode (34dBA) or Cool mode (69.5dBA)
	Width x Depth x Height	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)	440 x 400 x 43.2 mm (17.32 x 15.75 x 1.70 in)
Weight	6.95kg (15.32 lb)	7.15kg (15.77 lb)	10.280 kg (22.72 lb)	7.52 kg (16.57 lb)	
Electromagnetic Compliance	(Class A or B)	A	A	A	
Warranty Hardware*	Lifetime	Lifetime	Lifetime	Lifetime	
Warranty Power Supply	Lifetime	Lifetime	Lifetime	Lifetime	
Modules	AGM731F/ AGM732F;AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/ AXM765	AGM731F/ AGM732F;AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/AXM764/ AXM765	Approved third-party QSFP28 DAC and fiber transceivers	Approved third-party QSFP28 DAC and fiber transceivers	
ProSUPPORT Maintenance Contracts***	OnCall 24x7 1-year OnCall 24x7 3-year OnCall 24x7 5-year	PMB0314 PMB0334 PMB0354	PMB0314 PMB0334 PMB0354	PMB0314 PMB0334 PMB0354	

# Fully Managed

## Fully Managed, M4500 series (L3), 10, 25, 50 and 100-Gigabit



MODEL	M4500-32C (CSM4532)	M4500-48XF8C (XSM4556)		
Port Configuration	10/100/1000 RJ45 Ports (Auto Uplink)			
	Fiber Ports	32 QSFP28 (100G)	48 SFP28 (10/25G) / 8 QSFP28 (100G)	
	10Gig Module Bays			
PoE (Power-over-Ethernet)	PoE (15.4W) 802.3af Ports			
	PoE+ (30W) 802.3at Ports			
	Total PoE Budget			
Stacking	Number of Dedicated Stacking Ports			
	Stacking Bandwidth			
	Stacking (maximum capacity)			
Scalability	Stacking Compatibility	MLAG (M4500 Series)	MLAG (M4500 Series)	
	# MAC Addresses	32,000	32,000	
	ARP Table - Size of	8,192	8,192	
	# Routing Entries	32,000	32,000	
	# ACL Rules	16,384 (ingress, egress)	16,384 (ingress, egress)	
System Management	Single IP Management			
	Web Managed/GUI			
	Command Line Interface/RS232 Console/Telnet	✓	✓	
	SNMP Version	v1, v2c, v3	v1, v2c, v3	
	RMON Group	1, 2, 3, 9	1, 2, 3, 9	
	DHCP (Client/Server/Relay)	Client/Server/L3 Relay	Client/Server/L3 Relay	
	Port Mirroring	Many-to-One; RSPAN	Many-to-One; RSPAN	
	IPv6 full set	✓	✓	
	Quality of Service	Number of Priority Queues	8	8
		Traffic Prioritization	802.1p; Diffserv; TCP/UDP	802.1p; Diffserv; TCP/UDP
Auto Voice VLAN		✓	✓	
Multicast Filtering	IGMP Snooping Version	v1, v2, v3	v1, v2, v3	
	IGMP Snooping Querier	✓	✓	
Performance	Bandwidth	6.4 Tbps	4 Tbps	
	Buffer Memory	256Mb	256Mb	
	Jumbo Frames	9,198	9,198	
Availability	Spanning Tree 802.1d/RSTP .1w/MSTP .1s	802.1d, .1w, .1s	802.1d, .1w, .1s	
	RPS Redundant Power Supply	Second APS750W (included)	Second APS750W (included)	
	Modular Power Supply	APS750W	APS750W	
Traffic Management	Number of 802.1q VLAN/Number of VLAN Group	4,093 / 4,093	4,093 / 4,093	
	Link Aggregation 802.3ad/LACP	✓	✓	
	Discovery Protocol LLDP 802.1ab	✓	✓	
	Rate Limiting	✓	✓	
	Broadcast Storm Control	✓	✓	
L3 Routing	IPv4 Static Routing	✓	✓	
	IPv4 RIPv1/2, OSPFv1/2, VRRP, EMCP	OSPFv2, VRRP, EMCP, BGP4	OSPFv2, VRRP, EMCP, BGP4	
	IPv6 Static Routing, IPv6 OSPFv3	✓	✓	
	IPv4 / IPv6 Multicast Routing PIM-SM/DM	PIM-SM/SSM	PIM-SM/SSM	
Security	IEEE 802.1x (RADIUS)	✓	✓	
	ACL - Access Control Lists	MAC, IP, TCP	MAC, IP, TCP	
	SSL/SSH & HTTPS	SSL/SSH	SSL/SSH	
	Guest VLAN	✓	✓	
	DHCP Snooping/IP Source Guard/ARP Guard	✓	✓	
	TACACS+	✓	✓	
Energy Efficiency	IEEE 802.3az			
	Auto Port Power Down			
	Dynamic Power Consumption			
	Power Consumption	426 Watts	394 Watts	
Physical	Desktop/Rack mount	R	R	
	Metal/Plastic Enclosure	Metal	Metal	
	MTBF @ 25°C	281,359 hours	289,052 hours	
	Fan(s)	Front to back	Front to back	
	Acoustic Noise @ 25°C	64dBA	68dBA	
	Width x Depth x Height	440 x 508 x 43 mm (17.32 x 20 x 1.7 in)	440 x 508 x 43 mm (17.32 x 20 x 1.7 in)	
	Weight	9.78kg (21.54lb)	9.73kg (21.43lb)	
Electromagnetic Compliance	Class (A or B)	A	A	
Warranty Hardware	Lifetime	Lifetime	Lifetime	
Warranty Power Supply	Lifetime	Lifetime	Lifetime	
Modules	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/ AXM764/ AXM765; AXLC761/3; ACC761/3 AXLM761/AXLM762; ACM761/ACM762	AGM731F/AGM732F; AXC761/3/5/7/10/15/20 AXM761/AXM762/AXM763/ AXM764/AXM765; AXLC761/3; ACC761/3 AXLM761/AXLM762; ACM761/ACM762		
ProSupport Maintenance PKGS	OnCall 24x7-1-year OnCall 24x7-3-year OnCall 24x7-5-year	PMB0314-10000S PMB0334-10000S PMB0354-10000S	PMB0314-10000S PMB0334-10000S PMB0354-10000S	

# Modules and Accessories for Switches

## Gigabit Fiber Modules



MODEL	AGM731F	AGM732F	AGM734	AGM735
Product Description	SFP Transceiver 1000BASE-SX	SFP Transceiver 1000BASE-LX	SFP Transceiver 1000BASE-T	SFP Transceiver 100BASE-FX
Distance	Up to 550m	Up to 10km	Up to 100m	Up to 2km
Cabling Type	IEEE 802.3z 1000BASE-SX	IEEE 802.3z 1000BASE-LX	1000BASE-T	IEEE 802.3-2002 100BASE-FX
Connector	LC duplex	LC duplex	RJ45	LC duplex
Interface (Bus) Type	Small Form Factor Pluggable (SFP)	Small Form Factor Pluggable (SFP)	Small Form Factor Pluggable (SFP)	Small Form Factor Pluggable (SFP)
Form Factor	Plug-in module	Plug-in module	Plug-in module	Plug-in module
Data Transfer Rate	1 Gbps	1 Gbps	1 Gbps	100 Mbps
Hot-Swappable	✓	✓	✓	✓
Fiber Cable Support	50µm OM4 multimode (1000m); 50µm OM3 multimode (550m); 62.5µm OM1/OM2 multimode (275m)	9µm single mode (10km)	Copper CAT5E or better (1000 Mbps Full Duplex only)	50µm/62.5µm OM1/OM2/OM3/OM4 multimode (2km)
Switch Compatibility	Select Smart Managed (Easy Smart, Pro), Fully Managed Switches	Select Smart Managed (Easy Smart, Pro), Fully Managed Switches	Select Smart Managed (Easy Smart, Pro), Fully Managed Switches	Select Smart Managed (Easy Smart, Pro), Fully Managed Switches
Warranty	5 years	5 years	5 years	5 years

## 10-Gigabit Copper and Fiber Modules



MODEL	AXM761	AXM762
Product Description	SFP+ Transceiver 10GBASE-SR	SFP+ Transceiver 10GBASE-LR
Distance	Up to 500m	Up to 10km
Cabling Type	10GBASE-SR "Short Reach"	10GBASE-LR "Long Reach"
Connector	LC duplex	LC duplex
Interface (Bus) Type	10-Gigabit Small Form Factor Pluggable (SFP+)	10-Gigabit Small Form Factor Pluggable (SFP+)
Form Factor	Plug-in SFP+	Plug-in SFP+
Data Transfer Rate	10 Gbps	10 Gbps
Hot-Swappable	✓	✓
Fiber Cable Support	50µm OM4 multimode (500m); 50µm OM3 multimode (300m); 62.5µm OM1/OM2 multimode (33m)	9µm single mode (10km)
Switch Compatibility	Select Unmanaged, Smart Managed (Easy Smart Managed, Pro), Fully Managed Switches	Select Unmanaged, Smart Managed (Easy Smart Managed, Pro), Fully Managed Switches
Warranty	5 years	5 years

## 10-Gigabit Copper and Fiber Modules



MODEL	AXM763	AXM764	AXM765v2	AXC761	AXC763
Product Description	SFP+ Transceiver 10GBASE-LRM	SFP+ Transceiver 10GBASE-LR Lite	SFP+ Transceiver 10GBASE-T	Passive SFP+ DAC 1m	Passive SFP+ DAC 3m
Distance	Up to 260m	Up to 2km	Up to 80m	1m	3m
Cabling Type	10GBASE-LRM Long Reach Multimode	10GBASE-LR "Lite"	10GBASE-T	Direct Attach Cable	Direct Attach Cable
Connector	LC duplex	LC duplex	RJ45	SFP+	SFP+
Interface (Bus) Type	10-Gigabit Small Form Factor Pluggable (SFP+)	10-Gigabit Small Form Factor Pluggable (SFP+)	10 Gigabit Small Form Factor Pluggable (SFP+)	10-Gigabit Small Form Factor Pluggable (SFP+)	10-Gigabit Small Form Factor Pluggable (SFP+)
Form Factor	Plug-in SFP+	Plug-in SFP+	Plug-in SFP+	SFP+ Cable	SFP+ Cable
Data Transfer Rate	10 Gbps	10 Gbps	10 Gbps	10 Gbps	10 Gbps
Hot-Swappable	✓	✓	✓	✓	✓
Fiber Cable Support	62.5µm OM1/50µm OM2 multimode (220m); 50µm OM3/OM4 multimode (260m)	9µm single mode (2km)	CAT6a / CAT7 (Copper)	NA	NA
Switch Compatibility	Select Smart Managed (Easy Smart Managed, Pro), Fully Managed Switches	Select Smart Managed (Easy Smart Managed, Pro), Fully Managed Switches	Select Smart Managed (Easy Smart Managed, Pro), Fully Managed Switches	Select Smart Managed (Easy Smart Managed, Pro), Fully Managed Switches	Select Smart Managed (Easy Smart Managed, Pro), Fully Managed Switches
Warranty	5 years	5 years	5 years	5 years	5 years

## Modules and Accessories for Switches

### 10-Gigabit Copper and Fiber Modules



MODEL	AXC765	AXC767	AXC7610	AXC7615	AXC7620
Product Description	Active SFP+ DAC 5m	Active SFP+ DAC 7m	Active SFP+ DAC 10m	Active Optical SFP+ DAC 15m	Active Optical SFP+ DAC 20m
Distance	5m	7m	10m	15m	20m
Cabling Type	Direct Attach Cable	Direct Attach Cable	Direct Attach Cable	Direct Attach Cable	Direct Attach Cable
Connector	SFP+	SFP+	SFP+	SFP+	SFP+
Interface (Bus) Type	10 Gigabit Small Form Factor Pluggable (SFP+)	10 Gigabit Small Form Factor Pluggable (SFP+)	10 Gigabit Small Form Factor Pluggable (SFP+)	10 Gigabit Small Form Factor Pluggable (SFP+)	10 Gigabit Small Form Factor Pluggable (SFP+)
Form Factor	SFP+ Cable	SFP+ Cable	SFP+ Cable	SFP+ Cable	SFP+ Cable
Data Transfer Rate	10 Gbps	10 Gbps	10 Gbps	10 Gbps	10 Gbps
Hot-Swappable	✓	✓	✓	✓	✓
Fiber Cable Support	NA	NA	NA	NA	NA
Switch Compatibility	Select Unmanaged, Smart Managed (Easy Smart, Pro), Fully Managed Switches	Select Unmanaged, Smart Managed (Easy Smart, Pro), Fully Managed Switches	Select Unmanaged, Smart Managed (Easy Smart, Pro), Fully Managed Switches	Select Unmanaged, Smart Managed (Easy Smart, Pro), Fully Managed Switches	Select Unmanaged, Smart Managed (Easy Smart, Pro), Fully Managed Switches
Warranty	5 year	5 year	5 year	5 year	5 year

### Modular Power Supply



MODEL	APS150W	APS250W	APS299W	APS550W
Product Description	150-Watt Modular Power Supply	250-Watt Modular Power Supply	299-Watt Modular Power Supply	550-Watt Modular Power Supply
Hot-Swappable	When 2 PSUs	When 2 PSUs	-	When 2 PSUs
Switch Compatibility	M4300 series (1G non-PoE models)	M4300 series (10G models)	M4300-16X (PA)	M4300 series (PoE PA models)
Warranty	5 year	5 year	5 year	5 year

### Modular Power Supply



MODEL	APS600W	APS750W	APS1000W	APS1200W	RPS4000v2
Product Description	600-Watt Modular Power Supply	750-Watt Modular Power Supply	1,000-Watt Modular Power Supply	1,200-Watt Modular Power Supply	Redundant/External Power Supply (RPS/EPS for up to 4 switches)
Hot-Swappable	When 2 PSUs	When 2 PSUs	When 2 PSUs	When 2 PSUs	
Switch Compatibility	M4300-96X	M4500 series	RPS4000v2, M4300 series (PoE PB models), M6100	M4300-96X	S3300 (PoE), M4100, M4300 (48p PoE models), M5300, M6100
Warranty	5 year	5 year	5 year	5 year	5 year

### Tray Accessory



MODEL	PST4310
Product Description	Half-Width PSU Tray
PSU Compatibility	Support up to 2 x APS254W
Switch Compatibility	M4350-8M2XV (MSM4310)
Warranty	5 year

## Modules and Accessories for Switches

### Accessory Power Adapters

Increase or decrease your PoE budget anytime by simply upgrading your switch Power Supply, without having to purchase a new switch. Future-proof your PoE budget with GS108LP or GS116LP. And if you have power-hungry devices and directly need a high power PoE switch, buy GS108PP or GS116PP. This unique combination from NETGEAR Business makes these switches the most adaptive in the market.

The following table describes the Accessory Power Adapters which are sold separately and is only compatible with NETGEAR products for GS108LP, GS108PP, GS116LP and GS116PP only.

SWITCH MODEL	POWER ADAPTER MODEL	POWER ADAPTER WATTAGE	PoE+ POWER WATTAGE
GS108LP (Comes w/67.5W PA)	EPS90W EPS130W	90W 130W	83W 123W
GS108PP (Comes w/130W PA)	EPS90W EPS130W	90W 130W	83W 123W
GS116LP (Comes w/90W PA)	EPS90W EPS130W EPS200W	90W 130W 200W	76W 115W 183W
GS116PP (Comes w/200W PA)	EPS90W EPS130W EPS200W	90W 130W 200W	76W 115W 183W



	EPS90W	EPS130W	EPS200W
Input	110V-240V ~ 50/60Hz	110V-240V ~ 50/60Hz	110V-240V ~ 50/60Hz
Output	54V @ 1.66A	54V @ 2.4A	54V @ 3.7A
Weight	0.88 lb (0.40 kg)	0.43 lb (0.43 kg)	1.87 lb (0.85 kg)
Dimension L x W x H	5.65 x 2.55 x 1.27 in	5.91 x 2.55 x 1.27 in	7.78 x 3.50 x 1.54 in
Cord Length	6 feet (180 cm)		
Power Adapters Warranty	2-years		
Technical Support	90 days of free technical support from purchase date		
ProSupport Maintenance Contracts***	PMBOS11-10000S OnCall 24x7 1-year Category S1 PMBOS31-10000S OnCall 24x7 3-year Category S1 PMBOS51-10000S OnCall 24x7 5-year Category S1		



# MOBILE BROADBAND



## Security and Connectivity for Your Business



### 4G/5G MOBILE HOTSPOTS

Nighthawk® Mobile Routers deliver gigabit 4G LTE or 5G speeds, enabling mobile businesses to efficiently operating anywhere, regardless of whether it is at a temporary or permanent location.

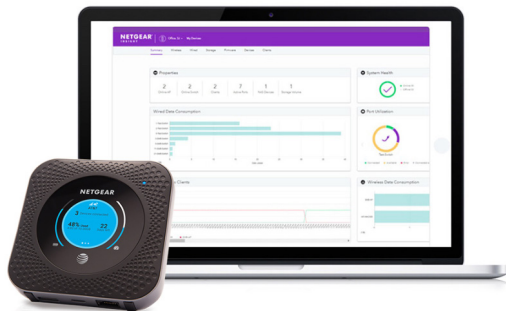
- Dedicated hotspot device to connect up to 32 WiFi devices to 4G LTE speeds.
- Utilize waiting time efficiently while in-transit.
- Download or upload information for file sharing or collaboration.
- Maintain data security and employee usage accountability, avoiding the risk of using unprotected public WiFi.



### 4G/5G HOME OFFICE WIFI

Orbi 5G and 4G LTE Advanced Tri-band Mesh WiFi Router delivers fast Internet speeds from the 5G or 4G LTE mobile network. Access 5G or LTE as your primary Internet connection, or count on 5G or LTE as your reliable failover solution.

- Insert a Nano SIM card from your preferred provider. Certified with AT&T, T-Mobile, and Verizon; not compatible with Sprint.
- Maintain business continuity when wired Internet such as fibre, cable or DSL are unavailable or disrupted. Seamlessly switch to 5G or LTE.
- NETGEAR Armor™ to guard your business network and connected devices with advanced cyber threat protection.



### INSIGHT PRO FOR MOBILE HOTSPOTS

NETGEAR mobile hotspots are ready to be managed remotely by Insight right out of the box.

- Bulk device onboarding and unified device profile setup
- Remotely onboard and configure your hotspot with organization-specific policies
- Protect device ownership by organization with secure authenticated device claiming process
- Supports multi-tenancy, allowing IT managers and MSPs to logically organize supported devices
- Remotely view usage statistics, cellular signal strength, and battery levels



### 4G LTE MODEMS

The NETGEAR 4G LTE Modems provide instant 4G LTE connectivity for all your devices and equipment in temporary worksites, or can act as a backup to your primary broadband network for avoiding service disruptions when your fixed wireline connection goes down.

LTE connectivity for business needs:

- Interim solution to fixed line service.
- Retail locations with payment processing.
- Temporary offices such as construction sites.
- Enterprise server room.
- WAN port feature will be enabled with future firmware upgrade.
- Certified with AT&T, T-Mobile, and Verizon. Not compatible with Sprint.



# SUPPORT



# ProSupport for Business

## COMPREHENSIVE SUPPORT PLANS FOR MAXIMUM NETWORK UPTIME AND BUSINESS PEACE OF MIND

- 24/7 live technical support and consultation
- Direct, scheduled access to product experts to help in configuration

### MORE THAN JUST SUPPORT — A BUSINESS PARTNERSHIP

NETGEAR's ProSupport for Business offerings provide you with peace of mind by extending and enhancing the standard warranty or support coverage included with your product purchase. With ProSupport, you get 24/7 direct access to NETGEAR technical support engineers who can rapidly resolve technical issues both big and small. Connect with the people that have built your products and build the relationship that will contribute to your business success.

### ONCALL 24X7 TECH SUPPORT

NETGEAR extends your initial 90-day technical support with the OnCall 24x7 Tech support package. OnCall 24x7 services are conducted by phone, chat and email, to solve any of your technical challenges.

With an OnCall 24x7 Tech support contract, customers will have a dedicated ProSupport Hotline to call for high priority service, with a less than four-hour\* response or call-back time. Technical support requests receive high priority escalations for issue resolution.

Please note that OnCall 24x7 Tech support contract purchases are non-refundable.

### PROFESSIONAL CONFIGURATION AND SETUP ASSISTANCE

Schedule an appointment for a live consultation by an expert to configure, set up, or re-configure your device.

ZERO COST - INCLUDED WITH HARDWARE PURCHASE <sup>1</sup>	WITH OPTIONAL PROSUPPORT ONCALL 24X7 CONTRACT
Hardware Warranty <sup>1,2</sup> - Varies by product	Hardware Warranty <sup>1,2</sup> - Varies by product
NBD Replacement during Hardware Warranty Period - Select NETGEAR Business Products	NBD Replacement during Hardware Warranty Period - Select NETGEAR Business Products
90-Day 24x7 Free Technical support <sup>3</sup>	Extended 24x7 Technical support <sup>3,5</sup>
Support by Email	Support by Email
Support by Chat	Support by Chat
Support by Phone	Support by Phone
24x7 Online Chat Tech support <sup>3,4</sup> - Select NETGEAR Business Products	24x7 Online Chat Tech support <sup>3,4</sup> - For length of contract

\* Except in cases of force majeure events such as war, natural disaster, strike, and other circumstances beyond reasonable control. During local non-business operating hours, English-only speaking personnel may provide the technical support.

<sup>1</sup> NETGEAR SMB products come with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and covers unmodified hardware, fans and internal power supplies. Requires product registration within 90 days of purchase; see <https://www.netgear.com/about/warranty> for details. Void if product has been modified or damaged in any way. Does not apply to software or external power adapters.

<sup>2</sup> Limited lifetime hardware warranty and 24/7 Online Chat Support ends 5 years after product EOL date. Does not cover software. Does not apply to external power adapters.

<sup>3</sup> 24x7 technical support is offered in English only; all other regions follow local business hours.

<sup>4</sup> 24x7 Online chat Tech support duration varies by product. For Limited Lifetime Warranty products, online chat support duration ends with latter of hardware warranty or paid ProSupport OnCall 24/7 contract expiration.

<sup>5</sup> Varies according to the duration of the ProSupport contract.



## Pro WiFi Design Services

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### SITE SURVEY

Maximize WiFi signals throughout the installation area with a performance-centered site survey.



### PRODUCT SELECTION

Get the right access points you need for your installation.



### TROUBLESHOOTING

Solve any problems in the moment, on-site with a direct line to NETGEAR engineers.



### TRAINING AND SUPPORT

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