NETGEAR® BUSINESS

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 6 performance in WiFi 6 wireless access points.

**NETGEAR's exclusive FlexPoE allows you to increase the PoE budget of the switch simply by

PoE CLASS CHART

PoE Class Chart	Min. power levels the PSE needs to provide	Min/Max power available to the PD[2]	Class Description	Powered Devices (PD)
0[1]	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[3]	Ultra high power	LED lighting, Audio Speakers, AV encoders, PTZ cameras, Wi-Fi 6 (11AX) high-end Access Points
7/8 (PoE++)	90.0W	25.5W-71W[3]		

PD CHART

PD Product	Product Description	Power Consumption
GS108Tv3	Gigabit Smart Switch	5.5W
M4100-D12G (GSM5212)	12 x GbE + 4 Combo SFP Managed Switch	25W
WAX214	Business Essentials WiFi 6 AX1800 Dual-Band Access Point	15.3W
WAX218	Business Essentials WiFi 6 AX3600 Dual-Band Access Point	30W
WAX610	WiFi 6 AX1800 Dual-Band Multi-Gig Access Point	15.3W
WAX610Y	WiFi 6 AX1800 Dual-Band Multi-Gig Outdoor Access Point	16.1W
WAX620	WiFi 6 AX3600 Wireless Access Point	25.5W
WAX625	WiFi 6 AX5400 Wireless Access Point	21.2W
WAX630	WiFi 6 AX6000 Wireless Access Point	30.1W
WAX630E	WiFi 6 AXE7800 Wireless Access Point	27.64W

www.netgear.com/poe

[1] Default if not specified by device

[2] 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.

[3] 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.

NETGEAR Switches with PoE/PoE+/UPoE/Ultra PoE++

Model	Ports	PoE Ports & Type	PoE Budget	PoE Auto-Balance	NETGEAR FlexPoE**
UNMANAGED SWITCHES					
GS305Pv2	5 x GbE	4	63W	Yes	
GS305Pv3	5 x GbE	4	63W	Yes	
GS305PP	5 x GbE	4 PoE+	83W	Yes	
GS108LP	8 x GbE	8 (PoE+)	60W** (up to 123W with EPS130W)	Yes	Yes
GS108PP	8 x GbE	8 PoE+	123W**	Yes	Yes
GS308PP	8 x GbE	8 (PoE+)	83W** (up to 123W with EPS130W)	Yes	Yes
MS108UP	8x1G/2.5G	4 PoE+, 4 Ultra60 PoE++	230W	Yes	
GS116LP	16 x GbE	16 PoE+	76W** (up to 183W with EPS200W)	Yes	Yes
GS116PP	16 x GbE	16 PoE+	183W	Yes	Yes
GS316P	16 x GbE	16 (PoE+)	115W** (up to 183W with EPS200W)	Yes	Yes
GS316PP	16 x GbE	16 (PoE+)	183W**	Yes	Yes
GS324P	24 x GbE	16 PoE+	190W	Yes	
GS324PP	24 x GbE	24 PoE+	380W	Yes	
GS348PP	48 x GbE	24 (PoE+)	380W	Yes	
GS516PP	16 x GE	16 PoE+	260W	Yes	
GS516UP	16 x GE	16 PoE+, 8 Ultra60 PoE++	380W	Yes	
GS524PP	24 x GE	24 PoE+	300W	Yes	
GS524UP	24 x GE	24 PoE+, 16 Ultra60 PoE++	480W	Yes	
PLUS SWITCHES					
GS108PE	8 x GbE	4	53W		
GS305EP	5xGbE	4 (PoE+)	63W	Yes	
GS305EPP	5xGbE	4 (PoE+)	120W	Yes	
GS308EP	8 x GbE	8 (PoE+)	62W	Yes	
GS308EPP	8 x GbE	8 (PoE+)	123W	Yes	
MS108EUP	8x1G/2.5G	8 PoE+, 4 Ultra60 PoE++	230W	Yes	
GS316EP	15 x GbE + 1G Dedicated SFP	15 (PoE+)	180W	Yes	
GS316EPP	15 x GbE + 1G Dedicated SFP	15 (PoE+)	231W	Yes	
SMART / SMART CLOUD SWITCHES					
GS110TPv3	8 x GbE + 2 x 1G Dedicated SFP	8 PoE+	55W		
GS310TP	8 x GbE + 2 x 1G Dedicated SFP	8 PoE+	55W		
GS510TLP	8 x GbE + 2 x 1G Dedicated SFP	8 PoE+	75W		
GS510TPP	8 x GbE + 2 x 1G Dedicated SFP	8 PoE+	190W		
MS108TUP	8 x 1G/2.5G	4 PoE+, 4 Ultra60 PoE++	230W	Yes	
MS324TXUP	24x1G/2.5G	24 Ultra60 PoE++	720W	Yes	
MS510TXPP	4 x GbE + 2 x 2.5GbE + 2 x 5GbE + 1 x 10GbE + 1 x 10G Dedicated SFP+	8 PoE+	180W		
MS510TXUP	4 x 2.5G + 4 x 10G + 2 x 10G Dedicated SFP+	8 Ultra60PoE++	295W	Yes	
GS324TP	24 x GbE + 2 x 1G Dedicated SFP	24 PoE+	190W		
GS724TPv2	24 x GbE + 2 x 1G Dedicated SFP	24 PoE+	190W		
GS724TPv3	24 x GbE + 2 x 1G Dedicated SFP	24 PoE+	190W		
GS724TPP	24 x GbE + 2 x 1G Dedicated SFP	24 PoE+	380W		
GS724TPPv3	24 x GbE + 2 x 1G Dedicated SFP	24 PoE+	380W		
GS728TPv2	24 x GbE + 4 x 1G Dedicated SFP	24 PoE+	190W		
GS728TPv3	24 x GbE + 4 x 1G Dedicated SFP	24 PoE+	190W		
GS728TPPv2	24 x GbE + 4 x 1G Dedicated SFP	24 PoE+	380W		
GS728TPPv3	24 x GbE + 4 x 1G Dedicated SFP	24 PoE+	380W		
GS752TPv2	48 x GbE + 4 x 1G Dedicated SFP	48 PoE+	380W		
GS752TPv3	48 x GbE + 4 x 1G Dedicated SFP	48 PoE+	380W		
GS752TPP	48 x GbE + 4 x 1G Dedicated SFP	48 PoE+	760W		
GS752TPPv3	48 x GbE + 4 x 1G Dedicated SFP	48 PoE+	760W		
M4200 SERIES INTELLIGENT EDGE MANAGED SWITCHES (L2+ L3 MULTI-GIGABIT)					
M4200-10MG-POE+ (GSM4210P)	8 x 2.5G + 2 x 10GBASE-T	8 (PoE+)	240W		
M4250 AV LINE MANAGED SWITCHES (L2+ L3 REVERSIBLE)					
M4250-9G1F-PoE+ (GSM4210PD)	8 x 1G + 1 x 1G Dedicated SFP		110W		
M4250-8G2XF-PoE+(GSM4210PX)	8 x 1G + 2 x 10G Dedicated SFP+		220W		
M4250-10G2F-PoE+ (GSM4212P)	10 x GbE + 2 x 1G Dedicated SFP	8 PoE+	125W		
M4250-10G2F-PoE+ (GSM4212P)	10 x GbE + 2 x 1G Dedicated SFP	8 PoE+	125W		
M4250-10G2XF-PoE++ (GSM4212UX)	10 x GbE + 2 x 10G Dedicated SFP+	8 Ultra90 PoE++	720W		
M4250-26G4F-PoE+ (GSM4230P)	26 x GbE + 4 x 1G dedicated SFP	24 PoE+	300W		
M4250-26G4F-PoE++(GSM4230UP)	26 x GbE + 4 x 1G dedicated SFP	24 Ultra90 PoE++	1,440W		
M4250-26G4XF-PoE+ (GSM4230PX)	26 x GbE + 4 x 10G dedicated SFP+	24 PoE+	480W		
M4250-40G8F-PoE+ (GSM4248P)	40 x GBE + 8 x 1G dedicated SFP	40 PoE+	480W		
M4250-40G8XF-PoE+(GSM4248PX)	40 x GBE + 8 x 10G dedicated SFP+	40 PoE+	960W		
M4250-40G8XF-PoE++ (GSM4248UX)	40 x GBE + 8 x 10G dedicated SFP+	40 Ultra90 PoE++	2,880W		
M4300 SERIES INTELLIGENT EDGE MANAGED SWITCHES (L2+ L3 STACKABLE)					
M4300-28G-POE+ (GSM4328PA)	24 x GbE + 2 x 10GBASE-T + 2 x 10GBASE-X SFP+	24 (PoE+)	480W 1 PSU (APS550W) 720W 2 PSUs		
M4300-28G-POE+ (GSM4328PB)	24 x GbE + 2 x 10GBASE-T + 2 x 10GBASE-X SFP+	24 (PoE+)	630W (110V) 720W (220V) 1 PSU (APS1000W) 720W 2 PSUs		
M4300-52G-POE+ (GSM4352PA)	48 x GbE + 2 x 10GBASE-T + 2 x 10GBASE-X SFP+	48 (PoE+)	480W 1 PSU (APS550W) 720W 2 PSUs		
M4300-52G-POE+ (GSM4352PB)	48 x GbE + 2 x 10GBASE-T + 2 x 10GBASE-X SFP+	48 (PoE+)	591W (110V) 860W (220V) 1 PSU (APS1000W) 1010W (110V) 1440W (220V) 2 PSUs		
M4300-16X (XSM4316PA)	16 x 100M/1G/2.5G/5G/10GBASE-T	16(PoE+)	199W 1 PSU (APS299W)		
M4300-16X (XSM4316PB)	16 x 100M/1G/2.5G/5G/10GBASE-T	16(PoE+)	500W 1 PSU (APS600W)		
M4300-96X (XSM4396K0)	Up to 96 x 100M/1G/2.5G/5G/10GBASE-T or SFP+; up to 24 x QSFP+	48 (PoE+)	484W (110V) 634W (220V) 1 PSU (APS1200W)1440W (2 PSU) (APS1200W)		