



ARCHITECT®

RFID, NFC AND BLUETOOTH® ACCESS CONTROL

[www.stid-security.com](http://www.stid-security.com)



**E**very now and again, things come along that completely transform our way of thinking, creating new benchmarks and challenging our well-worn concepts.

With its range of innovative Architect® readers, STid has created the perfect blend of high security and upgradability. This is the first modular range of secure RFID, NFC (HCE) and Bluetooth® readers offering both flexibility and simplicity.

Architect® readers are based on a smart RFID core (optional Bluetooth®) to which various interchangeable modules can be connected, such as card reader, keypad, touchscreen, biometric sensor and 125 kHz device to make your technology migrations easy to manage.



**The most awarded access control reader around the world**

## HIGH SECURITY

Easy access to high security

## DESIGN & CUSTOMIZABLE

Let your imagination flow

## VANDAL-PROOF

Standing the test of time

## MULTI-TECHNOLOGY

Make your migration simple



## SCALABILITY AND MODULARITY

Create your own scalable configuration

The Architect® series is intuitive and dynamic, and consists of 5 interchangeable modules that can easily be connected to a smart RFID core (optional Bluetooth®). The concept can be tailored to your needs, offering the optimum solution for any situation and ensuring that all functionalities and security levels can be upgraded across all your readers.

This easy and cost saving modular approach lets you manage the security of your access points autonomously. The concept offers a greater degree of availability and services, while optimizing your inventory by reducing the number of parts needed by 40%.

# CREATE YOUR OWN UPGRADABLE CONFIGURATION

## + 8 possible configurations

1 unique RFID\* core, 3 interchangeable covers, 1 biometric sensor\*\* and a 125 kHz card module\*\*\*



\*Optional Bluetooth®, \*\*RFID version only, \*\*\*Standard and keypad / MIFARE® & Bluetooth® versions

## EASY ACCESS TO HIGH SECURITY

STid is the first RFID manufacturer to have received First Level Security Certification (CSPN)\* and to offer access solutions compliant with new European regulations on personal data protection (GDPR). It's a recognition of our unique know-how, the technological and security expertise that are implemented in your access architectures, whether new or existing.

**Keep control and remain fully independent in your access control management.** All public encryption algorithms can be used (3DES, AES, RSA, SHA...), which are recommended by official data security agencies (such as the French national agency ANSSI).

The Architect® readers use the latest MIFARE® DESFire® EV2 contactless chips with new data security mechanisms:

- **Secure Messaging EV2:** secure transaction method based on AES-128.
- **Proximity Check:** enhanced protection against relay attacks.

## MAKE YOUR MIGRATION SIMPLE

The multi-technology Architect® range makes it easy to manage extensions, upgrades and technology migrations. Readers are available in the following versions:



Classic EV1, Ultralight®, Plus®, DESFire® EV1 & EV2, NFC (HCE), iClass™\*\* (CSN), Orange Pack ID, Bluetooth® (optional), 125 kHz (with SE8 module).



**With the Bluetooth® option, choose your identification modes to make your access controls both secure and much more instinctive:**



Badge



Remote



Tap Tap



Slide



Hands-free

## Best Market Self-protection

— The patented tamper protection system protects sensitive data and gives the possibility to delete the authentication keys. Unlike the current solutions on the market, the reliability of the accelerometer-based technology avoids it being outsmarted.

The Architect® Blue range uses an EAL5+ certified crypto processor to encrypt your data.



ISO14443A / ISO15693 / LEGIC® RF Standard - read for LEGIC® Advant and Prime chips, CSN for the entire MIFARE® range, iClass™\*\*, PicoPass® and Inside® cards.

\* Certified reader: LXS33EPH57AD1 - ANSSI-CSPN-2013/03 Certificate - March 19<sup>th</sup> and October 24<sup>th</sup>, 2013

\*\*Our readers can only read the UID/Chip Serial Number. They cannot read secure HID Global's iCLASS™ cryptographic protections.

# LET YOUR IMAGINATION FLOW

A signature reflects personal style choices. The design of Architect® readers is immediately recognizable, with a dynamic and elegant style, featuring clean, pure lines. The Architect® range is elegant day or night thanks to its set of multi-colored, high-intensity LEDs. STid offers a range of customization options to tailor your reader to your corporate identity and integrate it fully into its installation environment.

## [+] COMMUNICATION VECTOR



Print your logo using digital UV or pad printing

## [+] SMART LIGHTING



Global vision multi-angle system  
Customization of the LEDs (360 colors)

## [+] YOUR READER IS A PIECE OF ART

Latest customization technology named Skin Effect for a spectacular experience



## [+] THE COLOR OF YOUR BUSINESS

Select your favorite casing color



Standard



On demand

# SPECIFICATIONS

## + READER

	MIFARE® version	BLUETOOTH® version	LEGIC® version
Operating frequency / Standards	13.56 MHz - ISO14443 A & B, ISO18092 (NFC) Bluetooth® (according version)		13.56 MHz - ISO14443A, ISO15693 LEGIC® RF Standard
Chip compatibility	MIFARE Ultralight® & Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus® & Plus® EV1, MIFARE® DESFire® 256, EV1 & EV2, NFC (HCE), SMART MX, iCLASS™ (CSN only), PicoPass® (CSN only), STid Mobile ID® (Bluetooth® version), Orange Pack ID		LEGIC® Advant & Prime / CSN MIFARE Ultralight® & Ultralight® C, Classic & Classic EV1, Plus® & Plus® EV1, DESFire® 256, EV1 & EV2, iCLASS™ PicoPass®, Inside®
Functions	Read only CSN, secure (file, sector) or Secure Protocol (Secure Plus) Secure read write		Read only CSN or secure (segment) Secure read write
Communication interfaces & protocols	TTL protocol Data Clock (ISO2) or Wiegand (ciphered mode - Sx1) RS485 (ciphered mode - Sx3) with secure communication protocols SSCP & SSCP2; OSDP™ V1 (plain communication) & V2 (secure communication SCP) RS232 (ciphered mode - Sx2) in MIFARE® version only Compatible EasySecure interface / Transparent interfaces with MIFARE® version only		TTL / RS232: Data Clock (ISO2), Wiegand or RS232 (SSCP protocol) TTL / RS485: Data Clock (ISO2), Wiegand or RS485 (SSCP protocol)
Reading distances*	Up to 8 cm / 3.15" with a DESFire® EV2 card	Up to 8 cm / 3.15" with a DESFire® EV2 card 0 - 20 m / 65.6 ft depending the Bluetooth® mode	Up to 8 cm / 3.15" with a LEGIC® Prime card Up to 6 cm / 2.36" with a LEGIC® Advant card
Secure EAL5+ storage	Yes (ARCS version)	Yes	-
Integrated UHF chip	EPC 1 Gen 2 for contactless reader configuration (protocols, LEDs, buzzer...)		-
Light indicator	2 RGB LEDs - 360 colors Configuration by card (standard or virtual with STid Settings application), software, external command (0V) or UHF technology according to the interface		2 RGB LEDs - 360 colors Software-configuration or External command (0V)
Audio indicator	Internal buzzer with adjustable intensity Configuration by card (standard or virtual with STid Settings application), software, external command (0V) or UHF technology according to the interface		Internal buzzer Software-configuration or External command (0V)
Power requirement	Typical 130 mA / 12 VDC (ARC) Typical 140 mA / 12 VDC (ARCS)	Typical 150 mA / 12 VDC	Typical 130 mA / 12 VDC
Power Supply	7 VDC to 28 VDC		
Connections	10-pin plug-in connector (5 mm / 0.2") / 2-pin plug-in connector (5 mm / 0.2"): O / F contact - Tamper detection signal		
Material	ABS-PC UL-V0 (black) / ASA-PC-UL-V0 UV (white)		
Dimensions (h x w x d)	107 x 80 x 26 mm / 4.21" x 3.15" x 1.02"		
Operating temperatures	- 20°C to + 70°C / - 4°F to + 158°F / Humidity: 0 - 95%		
Tamper switch	Accelerometer-based tamper detection system with key deletion option (patented) and/or message to the controller		
Resistance / Protection	IP65 Level - Weather-resistant with dust and water-proof electronics (CEI NF EN 61086 homologation) / Reinforced vandal-proof structure IK10		
Mounting	Wall mount / Flush mount (European & American) / Compatible with any surfaces and metal walls		
Certifications	CE, FCC and UL		CE

## + KEYPAD FEATURES

Keypad	Capacitive Touch keypad - 12 configurable backlit keys Configuration by card (standard or virtual with STid Settings application), software, external command (0V) or UHF technology according to the interface	Capacitive touch keypad 12 configurable backlit keys Activated / deactivated by software
Dimensions (h x w x d)	107 x 80 x 26 mm / 4.21" x 3.15" x 1.02"	
Operating temperatures	- 20°C to + 70°C / - 4°F to + 158°F / Humidity: 0 - 95%	
Resistance / Protection	Weather-resistant with dust and water-proof electronics (CEI NF EN 61086 homologation) / Reinforced vandal-proof structure IK08 / High resistant laser marking of keys	

## + TOUCHSCREEN FEATURES

Type	Color touchscreen
Touchscreen size	2.8" - 240 x 320 pixels
Touch keypad / Display	12 keys - Standard or scramble pad function / Display of images & texts
Dimensions (h x w x d)	128 x 80 x 31 mm / 5.04" x 3.15" x 1.22"
Operating temperatures	- 20°C to + 70°C / - 4°F to + 158°F / Humidity: 0 - 95%
Resistance	IP65 Level - Weather-resistant with dust and water-proof electronics (CEI NF EN 61086 homologation)
Doorbell function	Activated / deactivated according to your configuration

## + BIOMETRIC FEATURES (compatible with MIFARE® & LEGIC® versions)

Fingerprint sensor	Optical (MorphoSmart™)
Identification time	≤ 1 second
Collecting area	14 x 22 mm / 0.55" x 0.87"
Dimensions (h x w x d)	60 x 80 x 62 mm / 2.36" x 3.15" x 2.44" (biometric module only)
Operating temperatures	- 10°C to + 50°C / 14°F to + 122°F / Humidity: 0 - 95%
Resistance	IP65 Level - Weather-resistant with dust and water-proof electronics

## + 125 kHz PROX FEATURES (compatible with standard and keypad / MIFARE® & Bluetooth® versions)

Type	125 kHz card reader - EM42xx / EM4x50 / Wiegand 26, 34, 35 and 37 bits format / Nedap / Crosspoint
Dimensions (h x w x d)	38.99 x 79.93 x 25.7 mm / 1.49" x 3.11" x 0.98" (SE8 module only)
Operating temperatures	- 20°C to + 70°C / - 4°F to + 158°F / Humidity: 0 - 95%
Resistance / Protection	IP65 Level - Weather-resistant with dust and water-proof electronics (CEI NF EN 61086 homologation) Reinforced vandal-proof structure IK10

## FOCUS



Easy multi-mode configuration:  
card<sup>(1)</sup>, UHF technology<sup>(1)</sup>, smartphone<sup>(2)</sup>  
and secure connection.



MIFARE® and LEGIC® readers fully compatible with  
the High Security STid Secure Common Protocol -  
SSCP for certified solutions.



Compliant with the new European  
regulation on personal data protection  
(GDPR).



Readers fully compatible with the SIA Open  
Supervised Device Protocol - OSDP™ V1 and V2  
(according model).

(1) MIFARE® version, (2) Bluetooth® version

\*Caution: information about the distance of communication: measured from the centre of the antenna, depending on the type of credential, size of the credential, operating environment of the reader, power supply voltage and reading functions (secure reading).

\*\* Our readers can only read the UID/Chip Serial Number. They cannot read secure HID Global's iCLASS™ cryptographic protections.

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# Lock Down Peace of Mind.

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