STid
Electronic Identification

ARCHITECT®

SCALABLE CAPACITIVE KEYPAD READER
FOR HIGH-SECURITY ACCESS CONTROL

COMPATIBILITY

OSDP
SSCP

- MIFARE® credentials
- NFC Smartphones
- SECard software
- OSDP™ / SSCP protocols
- Transparent Mode (ANSSI)

LET YOUR IMAGINATION FLOW

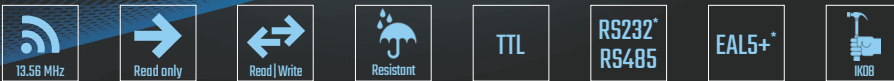YOUR LOGO

PRINTING OF YOUR LOGO
using digital UV
or pad printing

Customization
of the multicolor LEDs
(RGB, 360 colors)

Casing color choice

Latest customization technology named Skin effect

8 Awards

CERTIFICATIONS

CE FC UL EU c UL US

13.56 MHz | Read only | Read | Write | Resistant | TTL | RS232* RS485 | EAL5+* | IK08

SCALABLE AND SECURE ACCESS READER

By developing the Architect® innovative readers, STid has created the perfect blend of high security and scalability. The ARC-B is a secure RFID card reader with capacitive keypad.

EASY MANAGEMENT OF A MULTI-FACTOR IDENTIFICATION

Both reader and keypad, it allows a dual-identification by combining card and/or PIN code identifications. Thanks to its various operating modes (card AND key or card OR key), you can use the keypad to identify people or to activate additional functions (activation of the intrusion alarm...).

WELCOME TO HIGH SECURITY

The reader uses the latest MIFARE® DESFire® EV2 contactless chip technologies with new data security mechanisms:

- **Secure Messaging EV2:** secure transaction method based on AES-128 with protection against interleaving and replay attacks.

- **Proximity Check:** improved protection against relay attacks.

All public encryption algorithms can be used (3DES, AES, RSA, SHA, etc.), which are recommended by official data security agencies (such as the French national agency ANSSI). It uses an EAL5+* crypto processor to improve data protection and privacy.

CREATE YOUR OWN SCALABLE CONFIGURATION

The Architect® readers are based on a smart common RFID core that can be connected to additional interchangeable modules: card reader, keypad, touch screen, biometrics, 125 kHz module... The easy and cost saving modularity concept allows you to keep control of the access security management.
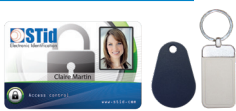
STANDING THE TEST OF TIME

The reader's IK08 certified vandal-proof structure has been optimized to resist knocks and malicious acts. It is designed to withstand harsh environments (IP65 level excluding connectivity): dust, heavy rain, frost, etc.

NXP MIFARE NFC

*According to the version

SPECIFICATIONS

Model	ARC-B	ARCS-B EAL 5+
Operating frequency/Standards	13.56 MHz: ISO14443A types A & B, ISO18092	
Chip compatibility	MIFARE® Ultralight® & Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus® (S/X) & Plus® EV1, MIFARE® DESFire® 256, EV1 & EV2, CPS3, NFC (HCE), PicoPass® (CSN only), iCLASS™ (CSN only*)	
Functions	**103**: read only CSN serial number (UID) **PC1**: preconfigured read only **PH5**: secure read only (sector/file) and secure Protocol (Secure Plus) / Secure read write	
Communication interfaces & protocols	TTL Data Clock (ISO2) or Wiegand (ciphered mode - Sx1) / RS232 (ciphered mode - S32) / RS485 (ciphered mode - Sx3) with secure communication protocols SSCP & SSCP2 ; OSDP™ V1 (plain communication) & V2 (SCP secure communication)	TTL Data Clock (ISO2) or Wiegand (ciphered mode - S31) / RS485 (ciphered mode - S33) with secure communication protocols SSCP & SSCP2 ; OSDP™ V1 (plain communication) & V2 (SCP secure communication)
Decoder compatibility	Compatible with EasySecure and «transparent» interfaces: EasyRemote, RemoteSecure & RemoteSecure addressable (4 readers)	Compatible with EasySecure interface
Keypad	Sensitive / capacitive keypad - 12 backlit keys Functions: Card AND Key / Card OR Key Configuration by RFID card, software, external command (0V) or UHF technology according to the interface	
Reading distances**	Up to 6 cm / 2.36" with a MIFARE® DESFire® EV2 or Classic card	
Data protection	Yes - Software protection	Yes - Software and physical protection to EAL5+ secure data storage with certified crypto processor
Light indicator	2 RGB LEDs - 360 colors - Configuration by RFID card, software, external command (0V) or UHF technology according to the interface	
Audio indicator	Internal buzzer Configuration by RFID card, UHF technology, software or external command (0V) according to the interface	Internal buzzer with adjustable intensity Configuration by RFID card, UHF technology, software or external command (0V) according to the interface
Power requirement / Power supply	160 mA/12 VDC max / 7 to 28 VDC	170 mA/12 VDC max / 7 to 28 VDC
Connections	10-pin plug-in connector (5 mm / 0.2") / 2-pin plug-in connector (5 mm / 0.2"): O/C contact - Tamper detection signal	
Material	ABS-PC UL-V0 (black) / ASA-PC-UL-V0 UV (white)	
Dimensions (h x w x d)	106.6 x 80 x 25.7 mm / 4.21" x 3.15" x 1.02" (general tolerance following ISO NFT 58-000 standard)	
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 solution) and/or message to the controller	
Protection / Resistance	IP65 Level excluding connector - Weather-resistant with waterproof electronics compliant with CEI NF EN 61086 standard Reinforced vandal-proof structure IK08 certified	
Mounting	Compatible with any surfaces and metal walls - Wall mount / Flush mount: - European 60 & 62 mm / 2.36" & 2.44" - American (metal/plastic) - 83.3 mm / 3.27" - External dimensions: 101.6 x 53.8 x 57.15 mm / 3.98" x 2.09" x 2.24" - Examples: Hubbel-Raco 674, Carlon B120A-UP	
Certifications	CE, FCC & UL	

Part numbers

Read only

	ARC-B	ARCS-B
CSN - TTL	ARC-R31-B/103-xx/y	-
Pre-configured - TTL	ARC-R31-B/PC1-xx/y	-
Secure - TTL	ARC-R31-B/PH5-xx/y	Secure - TTL ... ARCS-R31-B/PH5-xx/y
Secure - Secure Plus - TTL	ARC-S31-B/PH5-xx/y	Secure - Secure Plus - TTL ... ARCS-S31-B/PH5-xx/y
Secure - RS232	ARC-R32-B/PH5-5AB/y	-
Secure - Secure Plus - RS232	ARC-S32-B/PH5-5AB/y	-
Secure - RS485	ARC-R33-B/PH5-7AB/y	Secure - RS485 ... ARCS-R33-B/PH5-7AB/y
Secure - EasySecure - RS485	ARC-R33-B/PH5-7AA/y	Secure - EasySecure - RS485 ... ARCS-R33-B/PH5-7AA/y
Secure - Secure Plus - RS485	ARC-S33-B/PH5-7AB/y	Secure - Secure Plus - RS485 ... ARCS-S33-B/PH5-7AB/y
Secure - Secure Plus / EasySecure - RS485	ARC-S33-B/PH5-7AA/y	Secure - Secure Plus / EasySecure - RS485 ... ARCS-S33-B/PH5-7AA/y
Secure - EasyRemote - RS485	ARC-R33-B/PH5-7BB/y	-

Read/write

	ARC-B	ARCS-B
Secure - SSCP - RS232	ARC-W32-B/PH5-5AA/y	-
Secure - SSCP - RS485	ARC-W33-B/PH5-7AA/y	Secure - SSCP - RS485 ... ARCS-W33-B/PH5-7AA/y
Secure - RS485 - RemoteSecure	ARC-W33-B/PH5-7BB/y	-
Secure - SSCP v2 compliant CSPN - RS485	ARC-W33-B/PH5-7AD/y	Secure - SSCP v2 compliant CSPN - RS485 ... ARCS-W33-B/PH5-7AD/y
CSN OSDP - RS485	ARC-W33-B/103-7OS/y	-
Secure - OSDP™ - RS485	ARC-W33-B/PH5-7OS/y	Secure - OSDP™ - RS485 ... ARCS-W33-B/PH5-7OS/y

y: casing color (**1**: black - **2**: white)

DISCOVER OUR CREDENTIALS...

13.56 MHz ISO cards & key holders

NFC smartphones using STid Mobile ID® application

...AND OUR ACCESSORIES

Rain cover / Spacers / Converter cables / Bio and 125 kHz modules...

SECARD

SECard configuration kit and SSCP, SSCP2 & OSDP™ protocols

Flyer_Architect_ARC-B_ARCS-B_V1.00_US

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