



SCALABLE RFID CARD READER FOR HIGH-SECURITY ACCESS CONTROL



COMPATIBILITY

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

LET YOUR IMAGINATION FLOW



PRINTING OF YOUR LOGO
using digital UV
or pad printing

Customization
of the multicolor LEDs
(RGB, 360 colors)

Casing color



«Skin effect» new customization technology



CERTIFICATIONS



SECURE ACCESS READER

Vandal-proof and extremely scalable, the Architect® badge reader is specially designed for all your high security access control applications.

CREATE YOUR OWN SCALABLE CONFIGURATION

STid allows you to upgrade the functionalities and security levels of all your readers. The modularity concept allows you to implement new functions: keyboard, touch screen or biometric fingerprint sensor and/or add a 125 kHz module for your technological migrations.

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.

BEST MARKET SELF-PROTECTION

The patented tamper protection system protects sensitive data and gives the possibility to delete the sensitive data.

Unlike the current solutions on the market, the reliability of the accelerometer based technology avoids it being outsmarted.

STANDING THE TEST OF TIME

The reader's IK10 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.



SPECIFICATIONS

Model	ARC-A	ARC5-A 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																																																
Reading distances**	Up to 8 cm / 3.15" 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 LEDs RGB - 360 colors Configuration by RFID card, UHF technology, software or external command (0V) 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	130 mA/12 VDC max / 7 to 28 VDC	140 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 IK10 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" - 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	<table border="0"> <tr> <td>Read only</td> <td>CSN - TTL ARC-R31-A/103-xx/y</td> <td>-</td> </tr> <tr> <td></td> <td>Pre-configured - TTL ARC-R31-A/PC1-xx/y</td> <td>-</td> </tr> <tr> <td></td> <td>Secure - TTL ARC-R31-A/PH5-xx/y</td> <td>Secure - TTL ARCS-R31-A/PH5-xx/y</td> </tr> <tr> <td></td> <td>Secure - Secure Plus - TTL ARC-S31-A/PH5-xx/y</td> <td>Secure - Secure Plus - TTL ARCS-S31-A/PH5-xx/y</td> </tr> <tr> <td></td> <td>Secure - RS232 ARC-R32-A/PH5-5AB/y</td> <td>-</td> </tr> <tr> <td></td> <td>Secure - Secure Plus - RS232 ARC-S32-A/PH5-5AB/y</td> <td>-</td> </tr> <tr> <td></td> <td>Secure - RS485 ARC-R33-A/PH5-7AB/y</td> <td>Secure - RS485 ARCS-R33-A/PH5-7AB/y</td> </tr> <tr> <td></td> <td>Secure - EasySecure - RS485 ARC-R33-A/PH5-7AA/y</td> <td>Secure - EasySecure - RS485 ARCS-R33-A/PH5-7AA/y</td> </tr> <tr> <td></td> <td>Secure - Secure Plus - RS485 ARC-S33-A/PH5-7AB/y</td> <td>Secure - Secure Plus - RS485 ARCS-S33-A/PH5-7AB/y</td> </tr> <tr> <td></td> <td>Secure - Secure Plus / EasySecure - RS485 ARC-S33-A/PH5-7AA/y</td> <td>Secure - Secure Plus / EasySecure - RS485 ARCS-S33-A/PH5-7AA/y</td> </tr> <tr> <td></td> <td>Secure - EasyRemote - RS485 ARC-R33-A/PH5-7BB/y</td> <td>-</td> </tr> <tr> <td>Read/write</td> <td>Secure - SSCP - RS485 ARC-W33-A/PH5-7AA/y</td> <td>Secure - SSCP - RS485 ARCS-W33-A/PH5-7AA/y</td> </tr> <tr> <td></td> <td>Secure - RS485 - RemoteSecure ARC-W33-A/PH5-7BB/y</td> <td>-</td> </tr> <tr> <td></td> <td>Secure - RS485 - RemoteSecure addressable ARC-W33-A/PH5-7BC/y</td> <td>-</td> </tr> <tr> <td></td> <td>Secure - SSCP v2 compliant CSPN - RS485 ARC-W33-A/PH5-7AD/y</td> <td>Secure - SSCP v2 compliant CSPN - RS485 ARCS-W33-A/PH5-7AD/y</td> </tr> <tr> <td></td> <td>Secure - OSDP™ - RS485 ARC-W33-A/PH5-7OS/y</td> <td>Secure - OSDP™ - RS485 ARCS-W33-A/PH5-7OS/y</td> </tr> </table>		Read only	CSN - TTL ARC-R31-A/103-xx/y	-		Pre-configured - TTL ARC-R31-A/PC1-xx/y	-		Secure - TTL ARC-R31-A/PH5-xx/y	Secure - TTL ARCS-R31-A/PH5-xx/y		Secure - Secure Plus - TTL ARC-S31-A/PH5-xx/y	Secure - Secure Plus - TTL ARCS-S31-A/PH5-xx/y		Secure - RS232 ARC-R32-A/PH5-5AB/y	-		Secure - Secure Plus - RS232 ARC-S32-A/PH5-5AB/y	-		Secure - RS485 ARC-R33-A/PH5-7AB/y	Secure - RS485 ARCS-R33-A/PH5-7AB/y		Secure - EasySecure - RS485 ARC-R33-A/PH5-7AA/y	Secure - EasySecure - RS485 ARCS-R33-A/PH5-7AA/y		Secure - Secure Plus - RS485 ARC-S33-A/PH5-7AB/y	Secure - Secure Plus - RS485 ARCS-S33-A/PH5-7AB/y		Secure - Secure Plus / EasySecure - RS485 ARC-S33-A/PH5-7AA/y	Secure - Secure Plus / EasySecure - RS485 ARCS-S33-A/PH5-7AA/y		Secure - EasyRemote - RS485 ARC-R33-A/PH5-7BB/y	-	Read/write	Secure - SSCP - RS485 ARC-W33-A/PH5-7AA/y	Secure - SSCP - RS485 ARCS-W33-A/PH5-7AA/y		Secure - RS485 - RemoteSecure ARC-W33-A/PH5-7BB/y	-		Secure - RS485 - RemoteSecure addressable ARC-W33-A/PH5-7BC/y	-		Secure - SSCP v2 compliant CSPN - RS485 ARC-W33-A/PH5-7AD/y	Secure - SSCP v2 compliant CSPN - RS485 ARCS-W33-A/PH5-7AD/y		Secure - OSDP™ - RS485 ARC-W33-A/PH5-7OS/y	Secure - OSDP™ - RS485 ARCS-W33-A/PH5-7OS/y
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DISCOVER OUR CREDENTIALS...



13.56 MHz ISO cards & key holders



NFC smartphones using STid Mobile ID® application



Shield / Spacers / Converter cables / Bio and 125 kHz modules...



SECARD configuration kit and SSCP, SSCP2 & OSDP™ protocols

*Our readers read only the iCLASS™ UID/Chip Serial Number. They do not read secure HID Global's iCLASS™ cryptographic protections. **Caution: information about the distance of communication: measured from the center of the antenna, depending on the type of identifier, size of the identifier, operating environment of the reader, temperatures, power supply voltage and reading functions (secure reading). External disturbances can cause the reading distances to decrease.

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