



## SCALABLE CAPACITIVE KEYPAD 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 choice

Latest customization technology named Skin effect



### CERTIFICATIONS



**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).

### 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.



## SPECIFICATIONS

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	<b>103:</b> read only CSN serial number (UID) <b>PC1:</b> preconfigured read only <b>PH5:</b> secure read only (sector/file) and secure Protocol (Secure Plus) / Secure read write																				
Communication interfaces & protocols	TTL Data Clock (ISO2) or Wiegand (ciphered mode - S31) / RS232 / 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)																				
Keypad	Sensitive / capacitive keypad - 12 backlit keys Functions: Card AND Key / Card OR Key Configuration by RFID card, software or UHF technology according to the interface																				
Reading distances**	Up to 6 cm / 2.36" with a MIFARE® DESFire® EV2 or Classic card																				
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																				
Power requirement/ Power supply	160 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	- 30°C to + 70°C / - 22°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, Carlton B120A-UP																				
Certifications	CE, FCC & UL																				
Part numbers																					
Read only	<table border="0"> <tr> <td>CSN - TTL .....</td> <td>ARC-R31-B/103-xx/y</td> </tr> <tr> <td>Pre-configured - TTL .....</td> <td>ARC-R31-B/PC1-xx/y</td> </tr> <tr> <td>Secure - TTL .....</td> <td>ARC-R31-B/PH5-xx/y</td> </tr> <tr> <td>Secure - Secure Plus - TTL .....</td> <td>ARC-S31-B/PH5-xx/y</td> </tr> <tr> <td>Secure - RS232 .....</td> <td>ARC-R32-B/PH5-5AB/y</td> </tr> <tr> <td>Secure - RS485 .....</td> <td>ARC-R33-B/PH5-7AB/y</td> </tr> <tr> <td>Secure - EasySecure - RS485 .....</td> <td>ARC-R33-B/PH5-7AA/y</td> </tr> <tr> <td>Secure - Secure Plus - RS485 .....</td> <td>ARC-S33-B/PH5-7AB/y</td> </tr> <tr> <td>Secure - Secure Plus / EasySecure - RS485 .....</td> <td>ARC-S33-B/PH5-7AA/y</td> </tr> <tr> <td>Secure - EasyRemote - RS485 .....</td> <td>ARC-R33-B/PH5-7BB/y</td> </tr> </table>	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 - Secure Plus - TTL .....	ARC-S31-B/PH5-xx/y	Secure - RS232 .....	ARC-R32-B/PH5-5AB/y	Secure - RS485 .....	ARC-R33-B/PH5-7AB/y	Secure - EasySecure - RS485 .....	ARC-R33-B/PH5-7AA/y	Secure - Secure Plus - RS485 .....	ARC-S33-B/PH5-7AB/y	Secure - Secure Plus / EasySecure - RS485 .....	ARC-S33-B/PH5-7AA/y	Secure - EasyRemote - RS485 .....	ARC-R33-B/PH5-7BB/y
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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



Decorative plate / Rain cover / Bio and 125 kHz modules...



SECARD  
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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