



## SCALABLE RFID CARD READER + BIOMETRICS FOR HIGH SECURITY ACCESS CONTROL



### COMPATIBILITY

- MIFARE® Classic & Classic EV1
- MIFARE Plus®
- MIFARE® DESFire® 256, EV1 / EV2
- SECard software
- OSDP™ / SSCP protocols



### LET YOUR IMAGINATION FLOW

Customization of the multicolor LEDs (RGB, 360 colors)



PRINTING OF YOUR LOGO using digital UV or pad printing



### CERTIFICATIONS



### MULTI-FACTOR IDENTIFICATION

The biometrics Architect® ARC-D reader combines the latest RFID MIFARE® DESFire® EV2 technologies with digital fingerprint recognition to enhance the security of your access control system.

### FINGERPRINT MANAGEMENT

Different possibilities of fingerprint management depending on your security needs:

- Fingerprint templates directly stored in the RFID card (CNIL French legislation compliance)
- Fingerprint templates stored in the reader or in the system
- Biometric derogation to manage one-time visitor or difficult finger etc.

### WELCOME TO HIGH SECURITY

The reader uses the latest MIFARE® DESFire® EV2 contactless 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).

### ADVANCED ANTI-FRAUD FUNCTIONS

The Architect® biometric reader is designed to resist fraud attempts:

- **False finger detection:** the reader detects a wide range of counterfeit fingerprints made of latex, Kapton, transparent film, rubber, graphite, etc.
- **Detection of live fingers**
- **Duress finger:** the admin can assign a finger number dedicated to authentication when the user is threatened.

### BEST MARKET SELF-PROTECTION

The patented tamper protection system protects sensitive data and gives the possibility to delete the authentication keys and fingerprints (if fingerprints stored in the reader).

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



## SPECIFICATIONS

Operating frequency/Standards	13.56 MHz: ISO14443A types A & B, ISO18092
Chip compatibility	MIFARE® Classic & Classic EV1 (4 kb), MIFARE Plus® (S/X) & Plus® EV1, MIFARE® DESFire® 256 (1 finger), EV1 & EV2
Functions	Read only: private ID (sector/file) or Secure Protocol (Secure Plus) / Secure Read Write
Digital fingerprint sensor	Optical (SAFRAN MorphoSmart™ CBM E3) - ≤ 1 second for a 1:1 authentication
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 interface
Reading distances**	Up to 8 cm / 3.15" with a MIFARE® DESFire® EV2 or Classic card
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
Power requirement/ Power supply	280 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)	156,4 x 80 x 25,7/59,6 mm / 6.14" x 3.14" x 1"/2.32" (general tolerance following ISO NFT 58-000 standard)
Operating temperatures	- 10°C to + 50°C ( 14°F to 122°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
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	
Read only	Secure - TTL ..... ARC-R31-D/PH5-xx/y Secure - Secure Plus - TTL ..... ARC-S31-D/PH5-xx/y Secure - RS232 ..... ARC-R32-D/PH5-5AB/y Secure - RS485 ..... ARC-R33-D/PH5-7AB/y Secure - EasySecure - RS485 ..... ARC-R33-D/PH5-7AA/y Secure - Secure Plus - RS485 ..... ARC-S33-D/PH5-7AB/y Secure - Secure Plus / EasySecure - RS485 ..... ARC-S33-D/PH5-7AA/y
Read/write	Secure - SSCP - RS232 ..... ARC-W32-D/PH5-5AA/y Secure - SSCP - RS485 ..... ARC-W33-D/PH5-7AA/y Secure - SSCP v2 compliant CSPN - RS485 ..... ARC-W33-D/PH5-7AD/y Secure - OSDP™ - RS485 ..... ARC-W33-D/PH5-7OS/y
y: casing color (1: black - 2: white)	

## DISCOVER OUR CREDENTIALS...



13.56 MHz ISO cards & key holders

## ...AND OUR ACCESSORIES



Decorative plate / Spacers / Converter cables / Mounting plate...



SECARD  
SECard configuration kit and SSCP,  
SSCP2 & OSDP™ protocols

\*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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