CERTIFICATIONS

SECURE COMMUNICATION PROTOCOLS

The open protocols SSCP* and SSCP2 provide security between reader and management system, enabling AES encryption and mutual "reader-controller" authentication before communication.

- Open, non-secret protocol
- Cryptography using public algorithms
- Reader authentication (session keys)
- Signature, encryption
- User key management
- Choice of communication method and security level (plain, signed, encrypted, signed and encrypted)

ANSSI COMPLIANT TRANSPARENT READER
Compliant with the ANSSI architecture number 1, the Architect® transparent reader is used to transfer security mechanisms and key storage in safe area. The reader does not contain keys and the security is guaranteed across the chain. It is also compatible with the EasyRemote and RemoteSecure smart interfaces into any system.

BEST MARKET SELF-PROTECTION
For more security, the patented tamper protection system protects sensitive data and gives the possibility to delete the sensitive data such as SSCP keys. Unlike the current solutions on the market, the reliability of the accelerometer based technology avoids it being outsmarted.

STANDING THE TEST OF TIME
The Architect® reader design has been developed to withstand harsh environments, to operate outside (IP65 level) and to offer a high impact resistance (IK10 certified).

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**SPECIFICATIONS**

| Operating frequency/Standards | 13.56 MHz, ISO14443 types A & B, ISO18092 (NFC) |
| Chip compatibility | MIFARE Ultralight® & Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus® & Plus® EV1, MIFARE® DESFire® 256, EV1 & EV2, NFC (HCE), SMART MX, CP53, PicoPass®, iCLASS™ (CSN only)* |
| Functions | Read only: CSN or private ID (sector/file) / Secure Read Write |
| Reading distances** | Up to 7 cm / 2.76” with a MIFARE® Classic card  
Up to 5 cm / 1.97” with a MIFARE® DESFire® EV2 card |
| Communication interfaces & protocols | RS485 with secure communication protocols SSCP & SSCP2  
Compatible with EasyRemote, RemoteSecure and RemoteSecure addressable interfaces |
| Light indicator | 2 LEDs RGB - 360 colors  
Configuration by card and software in R33 / By software in W33 |
| Indicator sonore | Internal buzzer  
Configuration by card and software in R33 / By software in W33 |
| Power requirement | 130 mA/12 VDC max |
| Power supply | 9 VDC to 15 VDC |
| Connections | 2-pin plug-in connector (5 mm / 0.2") GND / VDD  
2-pin plug-in connector (5 mm / 0.2") L+ / L- |
| Material | ABS-PC UL-V0 (black) / ASA-PC-UL-V0 UV (white) |
| Dimensions (h x w x d) | 106.64 x 80 x 25.70 mm / 4.17” x 3.14” x 0.98” (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) |
| Protection / Resistance | IP65 Level excluding connector - Weather-resistant with waterproof electronics (CEI NF EN 61086 homologation)  
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” - 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 |
| Part numbers | Secure read only / EasyRemote interface - RS485 ................................................................................................................... ARCT-R33-A/PHS-7BB/y  
Secure read/write SSCP - RS485................................................................................................................................................... ARCT-W33-A/PHS-7AA/ 
Secure read/write SSCP2 - RS485.................................................................................................................................................. ARCT-W33-A/PHS-7AD/  
Secure read/write SSCP / RemoteSecure addressable interface up to 4 readers - RS485 .................................................................. ARCT-W33-A/PHS-7BC/y |

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*(1) Dedicated to transparent commands.  
(2) Our readers only read the 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 & operating temperature of the reader, power supply voltage and reading functions (secure reading).  
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