ARCHITECT®

HIGH SECURITY READER

ARC-A - SMART RFID CARD READER

MIFARE Ultralight® & Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus®, DESFire® EV1 & EV2, NFC, CPS3

GOLD TROPHY Expoprotection 2014

Compatible
SECARD
Security Management System

UPGRADABLE AND MODULAR ACCESS READER

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

▶ High Security

The ARC-A reader uses the latest MIFARE® contactless chip technologies with new data security mechanisms. It implements public encryption algorithms (TDES, AES, RSA, SHA...), as recommended and recognized by official IT security organization.
The innovative tamper protection system protects sensitive data and gives the possibility to delete the authentication keys (patent pending). Unlike the current solutions on the market, the reliability of the accelerometer-based technology avoids it being outsmarted.

▶ Scalability and modularity

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…
The easy and cost saving modularity concept allows you to keep control of the access security management.
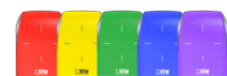
▶ Resistant, vandal proof

The ARC-A reader design has been developed to withstand harsh environments, to operate outside (IP65 excluding connectors) and to offer a high vandal proof resistance (IK10).

▶ Design and customization

STid offers a range of customization options to tailor your reader to your corporate image and integrate it fully in its installation environment.

CUSTOMIZABLE
MULTI-COLORED LEDs
(RGB, 360 colors)

CASING COLOR CHOICE

CASING WITH
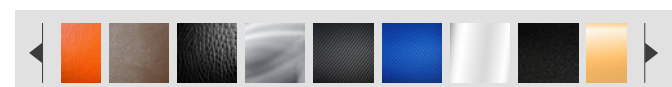MATERIAL-EFFECT
« Skin effect »

LOGO PRINTING
Tampography
Ink-jet printing HQ

Choose from over
100 skin effects:

MIFARE Plus

MIFARE DESFire EV1 & EV2

NFC

CPS 3

ARC-A - HIGH SECURITY READER

MIFARE® Classic EV1, MIFARE Plus®, DESFire® EV1 & EV2, NFC

SPECIFICATIONS

Operating frequency/Standards	13.56 MHz. ISO14443 types A & B, ISO18092 (NFC)
Chip compatibility	MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus®, MIFARE® DESFire®, MIFARE® DESFire® EV1 & EV2, NFC, SMART MX, CPS3, iCLASS®, PicoPass®
Functions	Read only: CSN or private ID (sector/file) / Secure Protocol (Secure Plus) Read-Write (SSCP and SSCP2)
Reading distances*	Up to 8 cm with a MIFARE® Classic card Up to 6 cm with a MIFARE Plus® /DESFire® EV1 card
Communication interfaces	2 possibilities: - TTL/RS232: Data Clock (ISO2), Wiegand (optional ciphered - S31) or RS232 (optional ciphered - S32) - TTL/RS485: Data Clock (ISO2), Wiegand (optional ciphered - S31) or RS485 (optional ciphered - S33)
Connections	10-pin plug-in connector (5 mm) 2-pin plug-in connector (5 mm): O/F contact - Tamper detection signal
Integrated UHF chip	EPC 1 Gen 2 for reader configuration (reader settings: protocols, LEDs, buzzer…)
Light indicator	2 RGB LEDs - 360 colors Card-configuration, UHF technology-configuration, software-configuration and external command (0V) in R3x/S3x versions - Software-configuration in W3x version
Audio indicator	Internal buzzer Card-configuration, UHF technology-configuration, software-configuration and external command (0V) in R3x/S3x versions - Software-configuration in W3x version
Power requirement/"Eco" function	Typical 100 mA/12VDC / 25% reduction in Energy-saving function
Power supply	7 VDC to 28 VDC
Material	ABS-PC-UL-V0 (black) / ASA-PC-UL-V0 UV (white)
Dimensions (h x l x p)	107 x 80 x 26 mm
Operating temperatures	- 20°C to + 70°C / Humidity: 0 - 95%
Tamper switch	Accelerometer-based tamper detection system with key deletion option (patent pending)
Protection/Resistance	IP65 (excluding connectors) & tropicalization of electronic card / Reinforced vandal proof structure IK10
Mounting	Wall mount/Flush mount (European flush boxes 60 & 62 mm) Compatible with any surfaces and metal walls
Certifications	CE & FCC

Part number y: casing color (1: black - 2: white)	CSN read only - TTL:	ARC-R31-A/103-xx/y
	Pre-configured read only - TTL:	ARC-R31-A/PC1-xx/y
	Secure read only - TTL:	ARC-R31-A/PH5-xx/y
	Secure read only / Secure Plus - TTL:	ARC-S31-A/PH5-xx/y
	Secure read only - RS232:	ARC-R32-A/PH5-5AB/y
	Secure read only / Secure Plus - RS232:	ARC-S32-A/PH5-5AB/y
	Secure read only - RS485:	ARC-R33-A/PH5-7AB/y
	Secure read only / EasySecure interface - RS485:	ARC-R33-A/PH5-7AA/y
	Secure read only / Secure Plus - RS485:	ARC-S33-A/PH5-7AB/y
	Secure read only / Secure Plus / EasySecure interface - RS485:	ARC-S33-A/PH5-7AA/y
	Secure read/write - RS232:	ARC-W32-A/PH5-5AA/y
	Secure read/write - RS485:	ARC-W33-A/PH5-7AA/y
	SSCP2 Secure read/write - RS485:	ARC-W33-A/PH5-7AD/y

C E

*Caution: information about the distance of communication: measured from the centre of the antenna, depending on the type of identifier, size of the identifier, operating environment of the reader, power supply voltage and reading functions (secure reading).

SECARD

Fully compatible with the SECard configuration kit and the SSCP protocol.

Architect® upgradable series

ARC-A   ARC-B   ARC-C

ARC-D   ARC-E   ARC-F

RFID core

Switchable smart covers

« Smart fix » base Compatible with European flush boxes (58 and 60 mm)

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