STid
Electronic Identification

→ Read only version

↔ Read Write version

ATX High Security

ATEX (EN60079) & IECEx reader
NXP - DESFire® EV1 & EV2 chips

Compatible
SECARD
Security Management System

High Security access control in explosive environments

The ATX 13.56 MHz is a high security ATEX & IECEx certified proximity reader for all your access control requirements in explosive environments. STid's range of ATX RFID products can be used to meet all your contactless identification needs in the chemical and petrochemical industries, in refineries or in nuclear power plants.

The ATX reader boasts the latest security technology from STid, ensuring secure, confidential communications with full data integrity between the tag, reader and management system.

▶ ATEX & IECEx certifications

ATX high security readers are ATEX (EN60079) & IECEx certified, in accordance with the two relevant European Directives (99/92/EC and 94/9/EC) and are designed for personal identification applications in explosive environments. The EX II 2 GD IP66 explosion-proof casing is well-suited to the chemical, petrochemical and nuclear industries, among others.

▶ High security identification

The new generation of ATX high security readers supports the latest MIFARE® contactless technologies and their new data protection and security features. They use all the new and possible security algorithms of these chips: Crypto1, DES, TDES, AES, etc.

▶ Card-based reader configuration

ATX read-only devices can be configured using configuration cards. These cards are used to configure the settings for user cards with regard to security (such as key management) and operation (protocol, LED, etc.).

▶ Multi-technology, evolutive

ATX readers are compliant with ISO14443 type A & B, ISO18092 standards.

They support simultaneously the NXP MIFARE® chips: Ultralight®, Classic & Classic EV1 (1ko, 4ko), Ultralight® C, MIFARE® Plus (S and X, 2ko and 4ko), DESFire®, DESFire® EV1 & EV2 - as well as special products like NFC transactions, iCLASS® and PicoPass® cards. With this multiple standard reading capacity, the reader is ready to answer easily cases of building extension, security evolution or migration.

The reader's firmware can be upgraded on-site with the serial communication to benefit technological evolutions (read/write version).

▶ Marking

EC type examination certificate:
BKI 08 ATEX 0048
Type approved: GUB
Ex II 2 GD
(G: Gas / D: Dust)
Ex d IIC T5
Ex tD A21 T100°C IP66

Ex

Specifications

Operating frequency/standards	13.56 MHz. ISO14443 type A & B, ISO18092
Chip compatibility	MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus®, MIFARE® DESFire® EV1 & EV2, SMART MX, iCLASS®, PicoPass®, NFC
Functions	Read only: CSN, private ID (sector/file) or secure protocol (Secure Plus) Read write: SSCP
Reading distance*	Up to 4 cm with a MIFARE Plus® / DESFire® EV1 card
Communication interfaces	- Wiegand - Data/Clock (Ciphered Wiegand/S31) - RS232 (RS232 functions S32 Ciphered) - RS485 (RS485 functions chiffrés S33 Ciphered)
Connections	2 cables glands PE PAP-R0 M20, for blinded cable ext. 10-19mm Internal block junction 10 x 2,5 mm²
Light indicator	Bicolor LED (colors: green, red, orange) Card configuration and external command (0V) in R31/S31 By card and soft in R32/S32/R33/S33 - Controlled by soft in W32/W33
Power supply	5 VDC to 24 VDC
Power requirement	Typical 100 mA/12 VDC
Material	Alluminium alloy & stainless steel, epoxy grey RAL 9006
Dimensions	270 x 310 x 180 mm
Weight	12,5 kg
Operating temperatures	- 20°C to + 70°C - Inside / outside use
Resistance	IP 66
Mounting	Wall mount: 4 brackets included - Screw diameter 11mm
Certification	CE (ETS 300-330) & FCC ATEX (EN60079) & IECEx
Marking	EC type examination certificate: BKI 08 ATEX 0048 Type approved: GUB Ex II 2 GD (G: Gas / D: Dust) Ex d IIC T5 Ex tD A21 T100°C IP66
Part number	CSN read-only - TTL: ATX-R31-E/103-xx/3 Pre-configured read-only - TTL: ATX-R31-E/PC1-xx/3 Secure read-only - TTL: ATX-R31-E/PH5-xx/3 Secure read-only - TTL - Secure Plus: ATX-S31-E/PH5-xx/3 Secure read-only - RS232: ATX-R32-E/PH5-5AB/3 Secure read-only - RS232 – Secure Plus: ATX-S32-E/PH5-5AB/3 Secure read-only - RS485: ATX-R33-E/PH5-7AB/3 Secure read-only - RS485: ATX-R33-E/PH5-7AA/3 Compliant with EasySecure interface Secure read-only - RS485 - Secure Plus: ATX-S33-E/PH5-7AB/3 Read Write - RS232: ATX-W32-E/PH5-5AA/3 Read Write - RS485: ATX-W33-E/PH5-7AA/3

*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).

Programming Kit SECARD

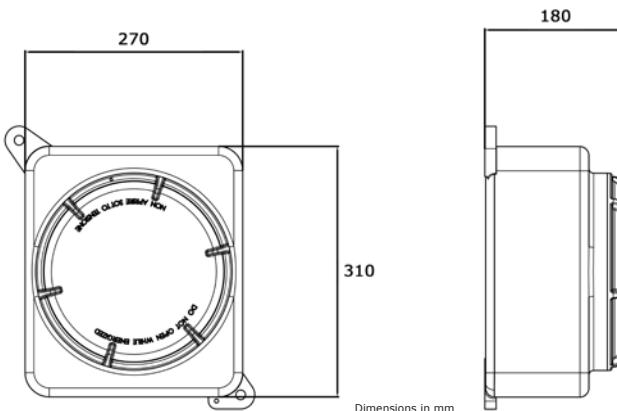Create configuration cards for high security readers and user cards.

Standard ISO cards
MIFARE® Hydrid cards

Wristbands

Key holders

270
180
310

Dimensions in mm

Flyer_ATX-HS_v4.00_US

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