STid
Electronic Identification

866 - 915 MHz
(EU, US, AU, NZ)

→ Read only version

⇄ Read/Write version

ATX2 UHF reader

ATEX (EN60079) & IECEx

UHF EPC1 Gen 2 reader - 1 external antenna

Traceability of high-value assets in explosive environments!

The ATX UHF is a powerful ATEX & IECEx certified reader with one external antenna, especially suited for tracking critical items in hazardous environments, which require explosion-protected equipment such as the chemical, petrochemical, gas filling stations, refinery, onshore/offshore plants and nuclear industries. STid has developed the ATEX & IECEx products range to fit the two essential industry requirements security and reliability.

▶ ATEX & IECEx certification

ATX2 UHF 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 assets tracking applications in explosive environments. Its Ex ll 2 GD IP66 explosion-proof casing is well-suited to the chemical, petrochemical and nuclear industries, among others.

▶ Interfaces & protocols

The ATEX & IECEx range of UHF readers is designed for seamless and flexible integration to existing management systems.
A lot of communication interfaces to the system are available: TTL, RS232, RS485 or TCP-IP. On request customer specific protocols can also be implemented.

▶ Easy installation and integration

ATX2 readers are easy to adapt to an existing configuration. They do not require any electronic tuning for a quick and simple setup. The ATEX & IECEx range features two versions: read-only (ATX2R-E) or read/write (ATX2W-E). You can easily integrate the reader in all kind of configuration thanks to its external antenna.

→ ⇄ TTL RS232 RS485 ⊕

IEC IECEx

Applications in harsh environments

- Logistics
- Track and trace assets
- Automate plant processes
- Vehicle and truck identification
- Track pallets, rolls, containers, returnable items, etc.

▶ Marking

EC type examination certificate:
BKI 08 ATEX 0048
Type approved: GUB
Ex II 2 GD (G: Gas / D: Dust)
Ex d IIC T6
Ex tD A21 T85°C IP66

Specifications

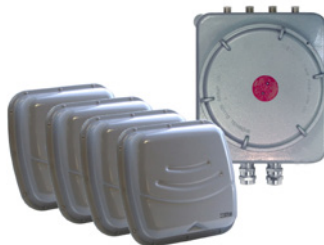|	
Operating frequency/standards	UHF - ETSI 302-208: 866 MHz (Europe), FCC Part 15: 915 MHz (USA), Australia and New Zealand
Chip compatibility	EPC1 Gen 2 / ISO18000-6C
Functions	Read only and read/write versions
Antenna(s)	1 external antenna (provided)
RF power	Up to +32 dBm
Reading distances*	Up to 6 m with a STid card
Anticollision system	Yes
Communication interfaces	Read-only version: TTL - ISO2 (Data Clock) or Wiegand, RS232, RS485 Read/write version: RS232, RS485, TCP-IP
Connections	2 cable glands PE PAP-R0 M20, for shielded cable ext. 10-19mm 1 Isolate-CT Ex d N-type / SMA female RF connector Transit plug Provided with a 3 m cable
Power requirement	2,5A/12VDC
Power supply	9/36V
Material	Aluminium alloy & stainless steel, epoxy grey RAL 9006
Reader dimensions (h x w x d)	310 x 270 x 174 mm
Antenna dimensions (h x w x d)	306 x 296 x 81 mm
Reader weight	13 Kg
Operating temperatures	-20°C to +50°C - Inside / Outside use
Resistance	Flameproof enclosure GUB23 IP66
Mounting	2 brackets included
Certification	CE & 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 T6 Ex tD A21 T85°C IP66
Part number	Read-only TTL: ATX2-RX1-E/U04-xx/3 Read-only RS232: ATX2-RX2-E/U04-xx/3 Read-only RS432: ATX2-RX3-E/U04-xx/3 Read/write RS232: ATX2-WX2-E/U04-xx/3 Read/write RS485: ATX2-WX3-E/U04-xx/3 Read/write TCP-IP: ATX2-WX4-E/U04-xx/3 X: versions= 4 - ETSI, 5 - FCC, 7 - Australia, 8 - New Zealand

*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.
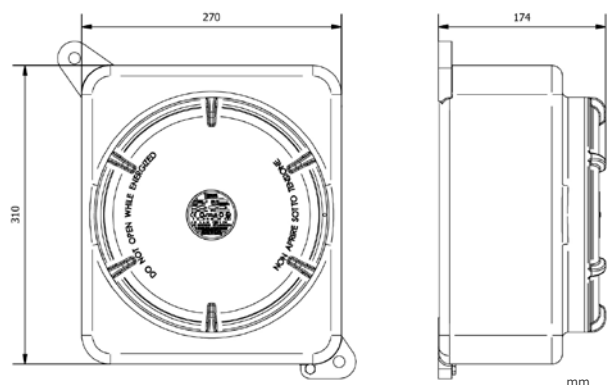
UHF ATEX & IECEx reader series

Integrated antenna reader

Multi-antennas reader
4 external antennas

Flyer_ATX2-UHF_V2.00_US

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