



INDUSTRIAL TRACEABILITY IN EXPLOSIVE ATMOSPHERE

SPECTRE ATX - UHF ATEX & IECEX READER WITH INTEGRATED ANTENNA



BENEFITS

- Designed for industries with ATEX zones
- Reader with integrated antenna ATEX & IECEX certified
- High reading performance, assets identification up to 4m / 13.1 ft⁽¹⁾
- Compatible with SESPRO configuration software and SPECTER GATE demo software



UHF



TCP/IP
POE⁽²⁾



SERIAL
INTERFACES



USB
WEDGE



GPIO



RESISTANCE



IK10

Designed for your most demanding RFID traceability applications, SPECTRE ATX is a fixed UHF reader with integrated antenna, ATEX & IECEX certified. It meets the needs of industrial identification and traceability in all explosive atmosphere environments. It speeds up, streamlines, and secures assets flow and data collection.

ATEX & IECEX CERTIFIED READER

Equipped with an explosion-proof Ex II 2 GD IP66 casing, the reader is ATEX (EN60079) & IECEX certified and complies with two European directives (99/92/CE and 94/9/CE).

It allows the supervision of industrial and logistics flows in industries with critical ATEX zones such as:

- chemical and petrochemical industries,
- oil and gas refineries,
- nuclear power plants,
- mines,
- loading areas for gases, etc.

HIGH READING PERFORMANCE

SPECTRE ATX offers the best performance with a long-distance identification capacity up to 4 m / 13.1 ft⁽¹⁾.

Its high performance makes SPECTRE ATX the most suitable industrial RFID reader for high volume moving applications in ATEX zones.

EASE OF INTEGRATION

SPECTRE ATX is interoperable with existing industrial infrastructures.

Power over Ethernet (PoE)⁽²⁾ allows the reader to be connected directly via Ethernet to the business software or to the middleware without any additional connection or power supply.

The reader offers 4 inputs (for detection cells, sensors, etc.) and 4 outputs (for light columns, rotating beacons, remote industrial buzzers, etc.). GPIOs simplify the on-site integration and configuration of customer applications (conveyor, shuttle, etc.).

The SSCP[®] protocol and its SDK for Windows-compatible .NET language make it easier and shorter to develop custom interfaces.

For the test phases, the native keyboard emulation will make it easy to test, with any text editor, the reading performance of the SPECTRE ATX.

PASSIVE RFID TECHNOLOGY: THE MASTER OF RETURN ON INVESTMENT

The SPECTRE ATX reader supports all types of passive UHF tags (without battery) guaranteeing:

- a virtually unlimited lifespan,
- controlled investments with a cost 3 to 5 times lower than other active technologies,
- the elimination of maintenance costs.



Marking

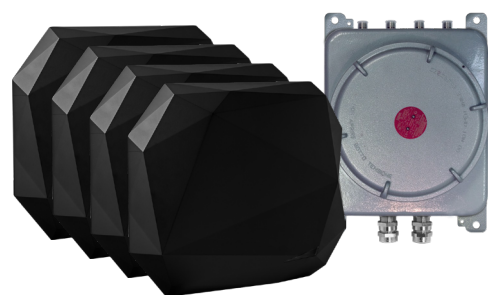
CE examination certificate:
INERIS 13 ATEX 0021X
Approved type: GUB Ex II 2 GD
(G: Gaz / D: Dust)
II 2G Ex db IIC T6
II 2D Ex tb IIIC T85°C IP66

SPECIFICATIONS

Operating frequency/standards	UHF - 2 versions: 865 - 868 MHz: 866 MHz ETSI (Europe), Morocco (regulation n°ANRT/DG/n°7-10)... 902 - 928 MHz: 915 MHz FCC Part 15 (USA), Australia, New Zealand...
«Air interface» protocol & functions	EPC1 Gen 2 / ISO18000-63 - Untraceable - Block Permalock - ATA SPEC 2000 compatibility
Functions	Managed (read/write)
Antenna	Integrated
RF performance	Maximum radiated power up to 32.5 dBm (865 - 868 MHz) and 31 dBm (902 - 928 MHz) - Reading up to 4 m / 13.1 ft ⁽¹⁾
Anti-collision	Anti-collision system combining reliability and identification swiftness
Communication interfaces	TCP-IP / RS232 / RS485 with SSCP® communication protocol + USB WEDGE (keyboard emulation) / WLAN (via connection to a Wifi router over Ethernet - optional)
Inputs / Outputs (GPIO)	4 inputs / 4 outputs opto-coupled and polarized at V+opt and V-opt (Max 30 v) - Input: 5 mA maximum each - Output: 200 mA maximum each / GPIO intended for applications with detection cells, traffic light control, industrial buzzer, etc.
Power supply	From 12 VDC to 30 VDC (typically 24 VDC) or PoE ⁽²⁾ - Optimized consumption: 24 VDC: 0.6 A
Connectors	Internal: Screwable jack (power supply) - RJ45 (Ethernet: Lantronix module) - DE9 (Serie) - M12 (GPIO) - USB C (keyboard emulation) External: 2 PE PAP-RO M20 cable glands for external shielded cables. 10-19 mm / 0.4-0.7"
Materials	Aluminum alloy and stainless steel, gray epoxy RAL 9006
Dimensions (h x w x d) / Weight	310 x 270 x 174 mm / 12.2" x 10.6" x 6.8" - 13.5 kg / 458.5 oz
Operating temperatures	- 20°C to + 50°C / -4°F to 122°F
Storage temperatures	- 40°C to + 65°C / - 40°F to + 149°F
Resistance	Explosion proof casing Ex II 2 GD IP66 - Explosion-proof, weatherproof, waterproof and dust resistant Reinforced structure with high resistance to shock and vibration (IK10 certified, IEC 60068-2-6 and MIL - STD-810G standards)
Mounting	4 fixing brackets on the casing
Certifications	CE, FCC and UL - ATEX (EN60079) & IECEx
Part numbers	Reader only: Reader UHF SPECTRE ATX – R/W SSCP® - TCP-IP PoE - 865-868 MHz.....ATXW44AU048AA3 Reader UHF SPECTRE ATX – R/W SSCP® - TCP-IP PoE - 902-928 MHz.....ATXW54AU048AA3



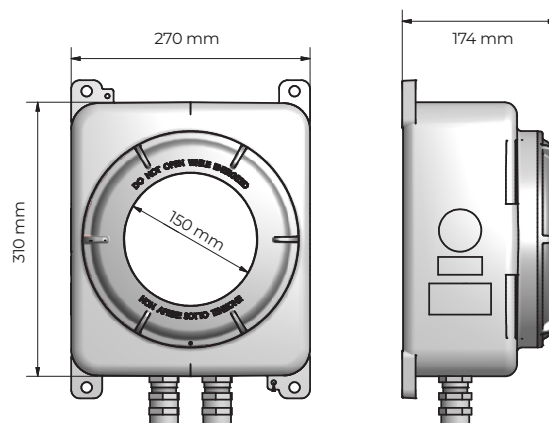
ATEX & IECX CERTIFIED UHF READER RANGE



Remote UHF multi-antenna reader - SPECTRE ATX4



UHF mobile terminal



(1) ATTENTION, information on reading speeds, performances, and distances: measured at the center of the antenna, depend on the type of tag, the type of support and its positioning, the temperature, and the supply voltage. Installation conditions and the environment may affect reading speeds, performance, and distances. (2) Requires a PoE switch or injector.

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