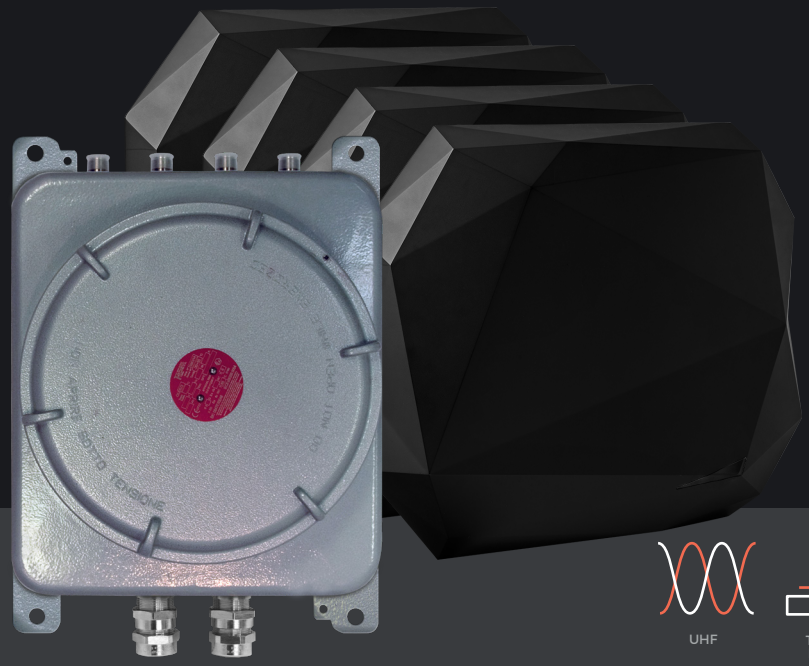
SPECTRE ATX

ATEX & IECEX RFID SERIES

INDUSTRIAL TRACEABILITY IN EXPLOSIVE ATMOSPHERE

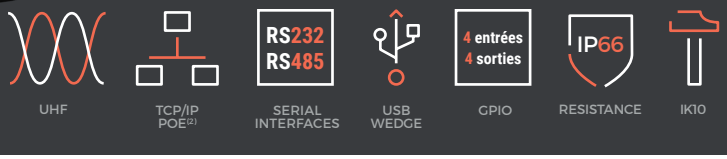
SPECTRE ATX4 - UHF ATEX & IECEX MULTI-ANTENNAS READER



BENEFITS

- Designed for industries with ATEX zones
- High reading performance, assets identification up to 6m / 19.7 ft(1)
- Compatible with SESPRO configuration software and SPECTER GATE demo software
- Up to 4 remote antennas
- The fastening of antennas according to VESA 75x75 standard

SSCP® Supported by SPAC Smart Physical Access Control



UHF | TCP/IP POE(2) | SERIAL INTERFACES | USB WEDGE | GPIO | RESISTANCE | IK10

CDesigned for your most demanding RFID traceability applications, SPECTRE ATX4 is a fixed multi-antenna UHF reader, 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

Thanks to 3D ID System technology, SPECTRE ATX4 offers the best performance with long-distance identification capacity of up to 6 m / 19.7 ft(1). Its high performance makes SPECTER ATX4 the most suitable industrial RFID reader for high volume moving applications in ATEX zones.

MODULAR AND SCALABLE: THE MASTER OF RETURN ON INVESTMENT

With its 4 remote and independent antennas, SPECTRE ATX4 adapts to all your requirements, for your current and future projects. The modularity of SPECTRE ATX4 makes it possible to anticipate changes in application cases and limits the costs associated with change. The SPECTRE ATX4 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.

EASE OF INTEGRATION

SPECTRE ATX4 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 (gantry, conveyor, shuttle, tunnel, etc.).

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

EASE OF INSTALLATION

The wall and mast mounting system of the remote antennas in VESA 75x75 standard allows numerous installation configurations.

The different lengths of ultra-flexible coaxial cables (1.5, 3, 9 and 12 m / 4.9, 9.8, 29.5 and 39.4 ft) and their possibility of serial connection, offer great flexibility of installation on site.

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

DESIGNED & MADE IN FRANCE

WE'VE GOT YOUR BACK

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(1) (2) See the legal notices on the back.

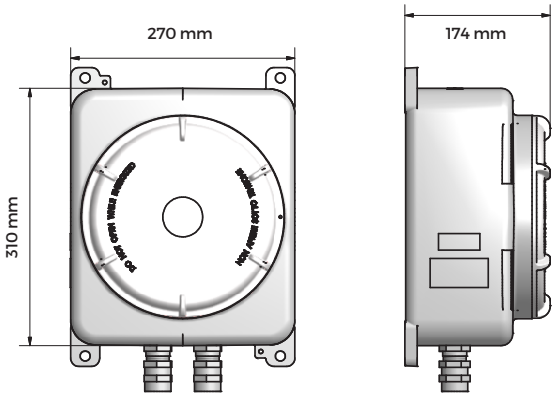
SPECIFICATIONS

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	Up to 4 remote antennas
RF performance	Up to 30.5 dBm - Reading up to 6m / 19.7 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-R0 M20 cable glands for external shielded cables. 10-19 mm / 0.4-0.7" - Antenna connection: 4 galvanically isolated outputs - Type N female
Materials	Reader: Aluminum alloy and stainless steel, gray epoxy RAL 9006 Antenna: ABS and polycarbonate (ABS-PC)
Dimensions (h x w x d) / Weight	Reader: 310 x 270 x 174 mm / 12.2" x 10.6" x 6.8" (general tolerance according to standard ISO NFT 58-000) – 13.5 kg / 458.5 oz Antenna: 349 x 279 x 44 mm / 13.7" x 11" x 1.7" (general tolerance according to standard ISO NFT 58-000) – 1.35 kg / 35.3 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
Antennas mounting (optional)	- Wall mounted with ball joint for inclined installation (adjustable on 3 axes) - On mast, on gantry Compatible with VESA 75 x 75 universal mounting kits
Antenna cables (optional)	Coaxial cables N / TNC Reverse 1.5, 3, 9 and 12 m / 4.9, 9.8, 29.5 and 39.4 ft to connect the antennas
Certifications	CE, FCC and UL - ATEX (EN60079) & IECEx
Part numbers These readers are originally configured in TCP-IP. They also offer RS232, RS485 and keyboard emulation (USB WEDGE) interfaces.	Reader only: Reader UHF SPECTRE ATX4 – R/W SSCP® - TCP-IP PoE - 865-868 MHz ..... ATX4W44AU048AA3 Reader UHF SPECTRE ATX4 – R/W SSCP® - TCP-IP PoE - 902-928 MHz ..... ATX4W54AU048AA3 Antennas : UHF SPECTRE antenna + buzzer - 865-868 MHz ..... ANT-SPECTRE-E UHF SPECTRE antenna + buzzer - 902-928 MHz ..... ANT-SPECTRE-F

ATEX & IECEX CERTIFIED UHF READER RANGE

UHF reader with integrated antenna - SPECTRE ATX

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 number and configuration of the antennas, 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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