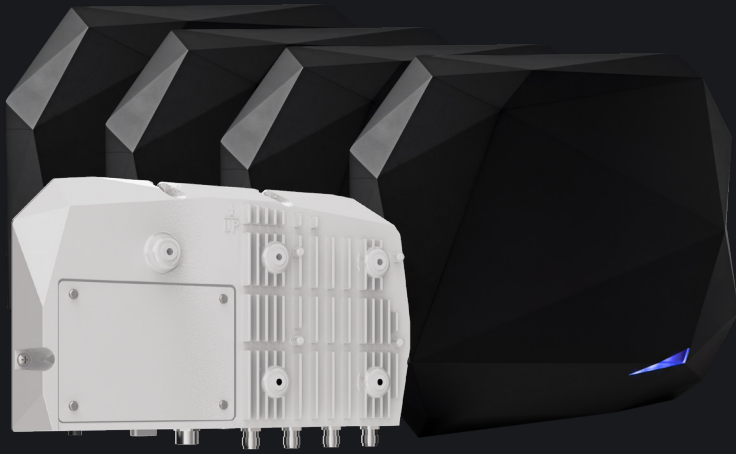


# INDUSTRIAL AND LOGISTICAL TRACKING

## UHF MULTI-ANTENNA READER



UHF



TCP/IP  
POE<sup>(2)</sup>



GPIO



SERIAL  
INTERFACES



INDICATORS



USB  
WEDGE



RESISTANCE  
EQ IP53



IK10

### BENEFITS

- High read performances of up to 1,200 tags/second<sup>(1)</sup>
- Compatible with the SESPPO configuration software and the SPECTRE GATE demonstration software
- Up to 4 remote antennas
- Standard VESA 75x75 mounting kit

The SPECTRE Industry reader (SMI) is designed for your most demanding traceability applications and meets all your needs for the identification and tracking of assets in industrial environments. It makes logistical flows and data collection faster, smoother and more secure.

### HIGH READ PERFORMANCES

Thanks to the 3D ID System technology, the SPECTRE Industry offers a long-range identification capability of up to 14 m/45.9 ft<sup>(1)</sup>.

The SPECTRE Industry offers the fastest and most reliable levels of identification, with read speeds in excess of 1,200 tags/second<sup>(1)</sup>.

These performances mean that the SPECTRE Industry is the RFID industrial reader best adapted for reading massive volumes of moving assets.

### MODULAR AND SCALABLE

With its 4 remote and independent antennas, the SPECTRE Industry reader can be adapted to meet all the requirements of your current and future projects. Thanks to its modular design, the SPECTRE Industry reader can be readily adapted to changes in your client applications at a limited cost.

### EASY INTEGRATION

The SMI is interoperable with existing industrial infrastructures.

The Power-over-Ethernet (PoE)<sup>(2)</sup> technology enables the reader to be connected directly over the Ethernet to business applications or middleware, without any additional connector or power supply.

The SPECTRE Industry reader features a configurable audio and light indicator that is integrated directly in the SPECTRE antenna (registered technology).

The reader has four inputs for detection cells, sensors, etc., and four outputs for the use of light columns, flashing lights, remote industrial buzzers, etc. The GPIO simplify the on-site integration and configuration of client applications (embedded solutions, on gates, conveyors or trolleys, in tunnels, etc.).

The SSCP<sup>®</sup> protocol and its SDK for the Windows-compatible .NET language facilitate and shorten the development timelines of personalized interfaces.

### QUICK AND EASY INSTALLATION

The SPECTRE Industry reader allows for numerous installation configurations thanks to its standard VESA 75x75 wall and mast mountings.

The *Smart Mounting* system can be used to mount the antenna on the reader, making the SPECTRE the most flexible and modular reader on the market.

The extra-flexible coaxial cables, available in lengths of 1.5, 3, 9 and 12 meters, and the possibility to serial-connect the cables, offer plenty of scope for different on-site installations.

The complete range of accessories (cables and connectors) for the power supply and communications enables Plug&play wiring in both the test phase and on customer sites.

### STANDING THE TEST OF TIME

With its IK10-certified reinforced anti-shock, IP53 protected level and MIL-STD-810G-compliant resistance to vibration structure, the SPECTRE Industry is the most robust UHF reader in its category.

It is designed for all industrial tracking applications in harsh environments, such as production workshops, factories, assembly lines, logistics warehouses, loading docks...

## 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 and functions	EPC1 Gen 2 / ISO18000-63 - Untraceable - Permalock Block - ATA SPEC 2000-compatible
Functions	Controlled (read/write)
Antenna(s)	Up to 4 remote antennas / The reader can be mounted on an antenna (SLI version)
Read performance <sup>(1)</sup>	3D ID System technology – Read speed higher than 1,200 tags/second <sup>(1)</sup> - Capable of processing more than 250 tags/second <sup>(1)</sup> with an anti-collision system - Read range of up to 14 m / 45.9 ft <sup>(1)</sup> / Maximum RF power of up to 32 dBm
Anticollision	Anticollision system combining reliability and identification speed
Communication interfaces	TCP-IP / RS232 / RS485 with the SSCP® communication protocol + USB WEDGE (keyboard emulation) / WLAN (by connecting a Wi-Fi router to the Ethernet - optional)
Inputs/Outputs (GPIO)	4 inputs / 4 sorties outputs, opto-coupled and polarized at V+opt and V-opt (max. 30 V) - Input: 5 mA max. each - Output: 200 mA max. each GPIOs for applications with detection cells, traffic light control, industrial buzzers, etc.
Light and audio indicator	LED: 360 colors ▲ ▲ ▲ - Buzzer: 3 sound levels (on the antenna) / Power and communication LED (on the reader)
Power supply	12 VDC to 30 VDC (typically 24 VDC) or PoE <sup>(2)</sup> - Optimized consumption: 24 VDC: 0.6 A
Connections	Screw-in jacks (power supply) - RJ45 (Ethernet: Lantronix Module) – DE9 (Serial) – M12 A-coded (GPIO) – USB C (keyboard emulation) – Reverse TNC (antenna ports)
Material	Reader: aluminum / Antenna: ABS and polycarbonate (ABS-PC)
Dimensions (h x l x d) / Weight	Reader only (SMI): 271.7 x 149.9 x 44.50 mm / 10.7" x 5.9" x 1.7", excluding connectors (general tolerance as per ISO NFT 58-000) - 1.3 kg Reader + antenna (SLI): 348.7 x 279.2 x 89.48 mm / 13.7" x 11" x 3.5" (general tolerance as per ISO NFT 58-000) - 2.65 kg
Operating temperatures	- 25°C to + 60°C / - 13°F to + 140°F - Indoor use
Water and dust-proofing	Reader only (SMI): Eq. IP53 / IP66-certified antenna Reinforced structure, high resistance to shocks and vibrations (IK10-certified, IEC 60068-2-6 and MIL – STD-810G-compliant)
Mounting (optional)	- Wall mounting with ball joint for installation at an angle (adjustable in three axes) - On masts, gates, on or under workbenches Compatible with the VESA 75 x 75 universal mounting kits
Compatible cables and connectors (optional)	Reverse TNC coaxial cables, 1.5, 3, 9 and 12 m / 4.9, 9.8, 29.5 and 39.4 ft, to connect antennas / Can be serial-connected (12 m max.) M12 A-coded connector alone or pre-wired / DE-9 connector alone or pre-wired / Screw-in jack connector alone or pre-wired to the 24 VDC power supply / RJ45 cable / USB-C / USB-A cable
Personalization	High-quality print of your logo directly on the reader or the antenna
Certifications 	CE, FCC and UL
Part numbers <small>These reader part numbers are natively configured for TCP-IP. They also feature RS2323, RS485 and keyboard emulation (USB WEDGE) interfaces.</small>	Reader only: SPECTRE Industry UHF reader – R/W SSCP - TCP-IP PoE - 865-868 MHz .....SMI-W44-A/U04-8AA/2 SPECTRE Industry UHF reader – R/W SSCP - TCP-IP PoE - 902-928 MHz.....SMI-W54-A/U04-8AA/2  Reader with mounted antenna: Reader + SPECTRE Industry UHF antenna – R/W SSCP -TCP-IP PoE - 865-868 MHz .....SLI-W44-A/U04-8AA/1 Reader + SPECTRE Industry UHF antenna – R/W SSCP -TCP-IP PoE - 902-928 MHz.....SLI-W54-A/U04-8AA/1  Antennas: SPECTRE UHF antenna + buzzer - 865-868 MHz.....ANT-SPECTRE-C SPECTRE UHF antenna + buzzer - 902-928 MHz .....ANT-SPECTRE-D

## DISCOVER THE SPECTRE GATE

### The first communicating, mobile<sup>(3)</sup> and standalone industrial RFID gate.

With its built-in SPECTRE Industry UHF multi-antenna reader, the SPECTRE GATE is designed for mobile use and easy transport, making it the ideal tool for your customer demonstrations, tests and POC (Proof of Concept). With its embedded demonstration software, this smart, all-in-one RFID gate can be used to quickly and simply present all the benefits of an RFID gate logistical traceability solution directly on site.

### SPECTRE GATE allows:

- Hierarchically organizes the loading order of containers (pallets, rolls, flight cases, etc.).
- Is totally mobile in the warehouse, thanks to its wheel-mounted mobile structure and self-contained power supply unit.
- Optimizes structural costs and the cost of customer POC, thanks to its scalable and adjustable architecture.
- Speeds up logistical flows by avoiding human error and thanks to its high-speed and real-time identification of massive volumes



<sup>(1)</sup> CAUTION: information on the read speeds, performances and ranges: measured at the center of the antenna, dependent on the type of tag, the type of support and its position, the number and configuration of the antennas, the temperature and the supply voltage. The installation conditions and the environment impact the read speeds, performances and ranges. <sup>(2)</sup> Requires a PoE switch or injector. <sup>(3)</sup> Fixed version also available.

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