

SPECTRE

INDUSTRIAL & LOGISTICAL TRACEABILITY MULTI-ANTENNA UHF READER



COMPATIBILITY

- EPC Class 1 Gen 2 / ISO18000-63
- 865 - 868 MHz / 902 - 928 MHz
- SESPro and SPECTRE GATE software
- Up to 4 UHF antennas
- VESA 75 x 75 mounting kits



CUSTOMIZATION

Customization of the multicolor LED (RGB, 7 colors)



PRINTING OF YOUR LOGO using digital UV



CERTIFICATIONS



FOR YOUR MOST CHALLENGING TRACEABILITY APPLICATIONS

The RFID SPECTRE reader meets the requirements for identification and monitoring of industrial assets in the most demanding environments. It accelerates, streamlines and secures your logistics flows and collection of your data.

HAUTES PERFORMANCES DE LECTURE

Thanks to the 3D ID System technology, SPECTRE offers the best coverage on the market with a long-distance identification capacity of up to 14 m / 45.9 ft**.

SPECTRE offers the highest levels of identification speed and reliability with a reading speed greater than 1,200 tags/sec** and a processing capacity greater than 250 tags/sec** with an anti-collision system.

These performances make Spectre the industrial RFID reader which is the most suitable for mass and in motion reading applications.

MODULAR AND DYNAMIC

With its four remote and independent antennas, SPECTRE adapts to all of your existing constraints, and those to come.

Its *Smart mounting* system provides the option of linking the reader to the antenna and makes SPECTRE the most flexible and modular reader on the market.

Thanks to non-proprietary technologies, SPECTRE anticipates the expansion of your organization, allowing you to remain fully autonomous in the management of your flows and industrial resources, now and into the future.

EASY INTEGRATION

With its SSCP protocol and compatibility with industrial communication standards, SPECTRE allows Plug & Play integration and interoperability with all existing systems.

The Power over Ethernet (PoE+) function makes possible the direct connection with your system without connectors or additional power supplies.

The SDK for the .NET language, compatible with Windows, offers a great deal of flexibility for the development of personalized interfaces.

SIMPLE AND QUICK INSTALLATION

With numerous mounting options (compatible with the VESA 75 x 75 standard), SPECTRE offers multiple installation configurations.

The various flexible coaxial cables (1.5, 3, 9 and 12 meters / 4.9, 9.8, 29.5 and 39.4 ft) and the option of connecting these in a series offers a large degree of flexibility for implementation.

The SPECTRE's flexibility of installation means that it can adapt to all your traceability applications (built-in, on a gate, conveyor, tunnel etc.), which therefore gives it a multi-application capabilities.

STANDING THE TEST OF TIME

With its reinforced anti-shock structure certified to IK10 and anti-vibration standard MIL-STD-810G, SPECTRE is the most robust UHF reader of the market. Its IP66 level means it is equally suited for inside and outside installation, and allows it to withstand the most restrictive environments affected by vibrations, dust, saltwater and aqueous environments, etc.

SPECIFICATIONS

Operating frequency/standards	UHF - 2 versions: 865 - 868 MHz: 866 MHz ETSI (Europe), Morocco (n°ANRT/DG/n°7-10 regulation), etc. 902 - 928 MHz: 915 MHz FCC Part 15 (USA), Australia, New Zealand, etc.
Chip compatibility	EPC1 Gen 2 / ISO18000-63
Functions	Controlled mode (read/write)
Antenna(s)	Up to 4 external antennas Possibility to fix the reader to an antenna
Reading distances**	Up to 14 m / 45.9 ft with the ETA label and DogBone depending on vehicle type and installation conditions
Anticollision	Anti-collision system coupling reliability and speed of identification
Communication interfaces	TCP/IP PoE / RS232 / RS485 with secure communication protocol SSCP
Inputs / Outputs (I/O)	4 inputs - 4 outputs (Option de pilotage par cellule de détection, feux de trafic, buzzer industriel ou module vocal etc.)
Light indicator	LED 7 colors (green, red, blue, orange, purple, turquoise, white)
Power requirement	Typ. 1 A / 12 VDC
Power supply	9 VDC to 36 VDC (12 VDC typical) or PoE
Material	Antenna: ABS and polycarbonate (ABS-PC) / Reader: aluminum
Dimensions (h x w x d) / Weight	Reader: 271.73 x 149.89 x 43.50 mm / 10.7" x 5.9" x 1.7" (general tolerance following ISO NFT 58-000 standard) - 1.3 kg / 35.3 oz Reader + antenna: 348.7 x 279.2 x 45.1/83.6 mm / 13.7" x 11" x 1.8"/3.3" (general tolerance following ISO NFT 58-000 standard) - 2.65 kg / 70.5 oz
Operating temperatures	- 25°C to + 60°C / - 13°F to + 149°F - Indoor / outdoor - Humidity: 5 - 95 %
Resistance	IP66 - Weather-resistant with waterproof electronics / Reinforced vandal-proof structure IK10
Mounting (optional)	- Adjustable wall-mounting kit - Pole-mounted, on gate, under workbench Compliant with VESA 75 x 75 universal mounting kits (optional)
Compliant cables (optional)	TNC Reverse coaxial cables - 1.5, 3, 9 and 12 m / 4.9, 9.8, 29.5 and 39.4 ft to connect antennas - Cables can be connected in series (12 m/39.4 ft max)
Certifications	CE, FCC and UL
Part numbers	Reader version with integrated antenna: Spectre reader SSCP RS232 SLA-Wx2-A/U04-5AA/1 Spectre reader SSCP RS485 SLA-Wx3-A/U04-7AA/1 Reader only version: Spectre module SSCP RS232 SMA-Wx2-A/U04-5AA/2 Spectre module SSCP RS485 SMA-Wx3-A/U04-7AA/2 Antenna: 865 - 868 MHz ANT-UHF2-A 902 - 928 MHz ANT-UHF2-B Industry version : SPECTRE Industrial module RS232 / RS485 / TCP IP POE* SMI-Wxy-A/U04-yAA/2 SPECTRE Extrem module RS232 / RS485 / TCP IP POE* SME-Wxy-A/U04-yAA/2

x: versions = 4 - 865 - 868 MHz; 5 - 902 - 928 MHz

DISCOVER SPECTRE GATE

The 1st communicative, mobile⁽¹⁾ and autonomous industrial RFID gate

With an integrated Spectre multi-antenna UHF reader, it reduces the loading and unloading time at the dock by up to 40% and adapts to your organization as it is today and into the future.

SPECTRE GATE permits:

- Ranking of the loading order of containers (pallets, trolleys, flight cases etc.).
- Full mobility within the warehouse with its wheel-mounted structure and its autonomous power supply housing.
- Optimization of overheads thanks to dynamic and adjustable architecture.
- Acceleration of logistical flows thanks to the removal of the possibility of human error and mass, real time identification.



(1) Also available in fixed version

*Reader versions available at the end of 2019. ** CAUTION, information about reading speeds, performance and reading distances: measured at the center of the antenna, depending on the type of tag, the type of media and its positioning, the number and configuration of the antenna, the temperature and the supply voltage. Installation conditions and the environment influence reading speeds, performance and reading distances.

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