SPECTRE

UHF COMPACT NANO ANTENNA
INDUSTRIAL AND LOGISTICS TRACEABILITY

BENEFITS

- Optimized footprint
- High reading performance
- Multi-applications
- Multi-mounting options
- Withstanding challenging conditions in industrial environments

SSCP® Supported by SPAC

UHF   IP65 RESISTANCE   IK10

The nano antenna meets the needs of RFID identification and industrial traceability in the most demanding environments. It accelerates, streamlines, and secures asset flows and data collection.

HIGH READING PERFORMANCE

With a reading range of up to 6 m (20 ft)[1] , the compact nano antenna offers the best size-to-performance ratio for bulk and on-the-move reading applications.

It ensures reliability, speed, and optimal identification accuracy, even for the smallest UHF tags.

MULTIPLE APPLICATIONS

Its slimline design provides optimized footprint for all identification and traceability applications:

- Point-of-reading on fixed or mobile stations for picking operations and store in/out management (BE.Weapon, BE.Tools, etc.).
- Antenna networks for 2D localization (Zoning) of personnel in sensitive areas.
- Traceability applications on gantes and conveyors.
- Onboard applications on forklifts (storage zone identification, etc.) and intervention vehicles (automatic inventory of tools, equipment, PPE, etc.).

EASY TO INTEGRATE AND USE

The nano antenna has an LED and buzzer, which can be configured and controlled via the coaxial cable[2], without additional power supply (patented technology).

These audible and visual indicators enhance user interaction during reading and identification processes. These features simplify the integration of the traceability solution and eliminate the need for additional remote equipment (industrial buzzers, warning lights, light towers, etc.).

QUICK AND EASY TO INSTALL

The nano antenna enables multiple installation configurations via its VESA 75 x 75 standard mounting system for wall or pole installation.

The comprehensive range of anchoring accessories (wall-mounting plate or anchoring brackets for under workbench installation) makes the antenna the most versatile on the market.

The various lengths of super-flexible coaxial cables (1.5, 3, 9 and 12 meters) and the possibility of connecting them in series, provides major on-site installation flexibility.

DURABLE

The nano antenna features a reinforced shock-resistant structure certified IK10, is waterproof (certified IP65), and resistant to vibrations (MIL-STD-810G and EN 60068-2-64 standards).

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

DESIGNED & MADE IN FRANCE

INDUSTRIAL TRACEABILITY
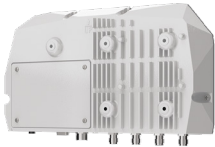
STid

CHARACTERISTICS

Standards / Frequencies	2 versions: 865 - 868 MHz: 866 MHz ETSI 902 - 928 MHz: 915 MHz FCC
Polarization	Circular antenna
Type of antenna / use	"Middle-range" remote antenna for UHF RFID readers
Reading distance[1]	Up to 6m with an ETA UHF tag, connected to a SPECTRE SMI or SME reader with a 1.5m cable
Compatible cables	TNC Reverse coaxial cables (optional) - 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
Audible and visual indicator[2]	1 RGB LED - 360 colors ▲ ▲ ▲ Activatable/deactivatable integrated buzzer - 3 sound levels Indicators controllable via SSCP® commands
Materials	ABS-polycarbonate (ABS-PC) / Aluminum
Dimensions (h x w x d) / Weight	185 x 230 x 35 mm / 7.2" x 9" x 1.4" / 1.25 kg / 35.3 oz
Operating temperatures	From - 30°C to + 60°C / From - 22°F to + 140°F
Protection / Resistance	IP65 certified - Protected against water and dust Humidity: 5% - 95% IK10 certified enhanced impact resistant vandal-proof structure Impact and vibrations: fixed equipment according to the EN 60068-2-64 standard / onboard equipment according to the MIL-STD-810G, Method 514.6 Category 20
Installation	Compatible with universal VESA 75 x75 anchoring kits (optional) - Wall mounting with ball and socket for inclined installation - Pole mounting Wall-mounting anchoring support (optional) Under-workbench mounting anchoring bracket (optional) On-workbench mounting anchoring pads (optional)
Certifications CE FC UK CA UL cRUus	CE (Europe), FCC (USA), IC (Canada), UKCA (UK) and UL
Part numbers	Nano antenna, black - 865-868 MHz..ANT-SPECTRE-G-1 Nano antenna, white - 865-868 MHz..ANT-SPECTRE-G-2 Nano antenna, black - 902-928 MHz..ANT-SPECTRE-H-1 Nano antenna, white - 902-928 MHz..ANT-SPECTRE-H-2

AZIMUT MEASUREMENTS

Horizontal polarization F = 867 MHz — Pol H

Vertical polarization F = 867 MHz — Pol V

Horizontal polarization F = 915 MHz — Pol H

Vertical polarization F = 915 MHz — Pol V
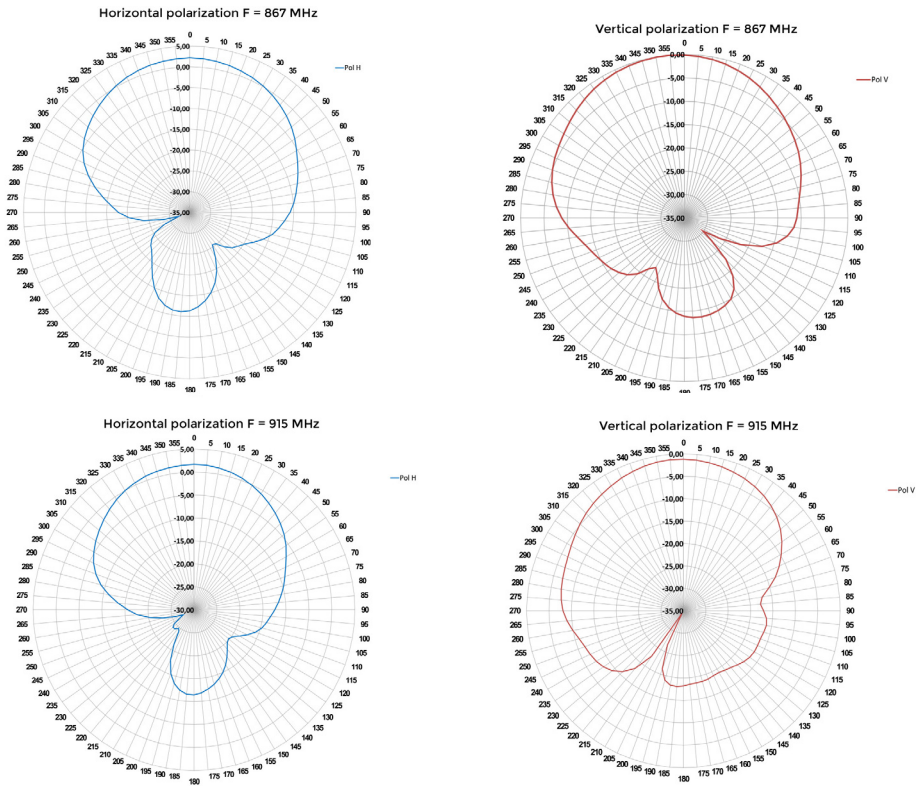
READERS AND ASSOCIATED TAGS

SPECTRE

SMI & SME UHF industrial
multi-antenna readers

IRONTAG®

UHF industrial tags and labels

(1) NOTE, information on speeds, performance and reading distances: measured at the center of the antenna, depending on type of tag, type of support and its positioning, number and configuration of antennas, temperature, power supply voltage and allowable local regulations. Installation and environmental conditions also affect speeds, performances and reading distances. (2) Functions only available of the antenna is connected to UHF SPECTRE Industry and SPECTRE Extrem readers.

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