SPECTRE NANO

UHF & BLUETOOTH® MULTI-TECHNOLOGY READER

- Identification up to 6 m (20 ft) of the vehicle and/or driver
- Highly Secure: encrypted data, secure storage, and tamper-proof protection
- Enhanced User Experience: hands-free identification and customizable modes
- Operates in Standalone mode or Connected to an access control system

SEAMLESS AND INTUITIVE MULTI-TECHNOLOGY IDENTIFICATION

SPECTRE nano revolutionizes access control by combining multiple technologies to easily identify vehicles and drivers, whether they are visitors, employees, tenants, or VIPs.

Passive UHF Technology
Identify vehicles and drivers over long distances (up to 6 m / 20 ft) using battery-free, durable, and maintenance-free tags.

STid Mobile ID® - Bluetooth® Smartphones
Enjoy secure and intuitive identification with your smartphone. Effortlessly access parking facilities with modes tailored to each use case (long-range, hands-free, or proximity).

Hybrid and Flexible Identification
The reader enables the use of virtual cards for simplified visitor management, UHF windshield tags for fleet tracking, or a combination of these technologies to simultaneously identify both the vehicle and its driver.

END-TO-END CONTROLLED SECURITY

SPECTRE nano ensures optimal security, guaranteeing data authenticity and confidentiality through encryption methods recognized by organizations such as ANSSI and FIPS.

- **Encrypted and signed credentials** to prevent cloning and replay attacks.
- **Certified storage:** keys protected within an EAL5+ module.
- **Smart self-protection:** automatic key deletion in case of tampering.
- **End-to-end secure communication** with SSCP® and OSDP™ protocols.

SIMPLIFIED INTEGRATION

The reader provides maximum flexibility, operating in standalone mode (whitelist stored in the reader) or connected to an access control system via the leading communication protocols on the market (Wiegand, OSDP™, SSCP®...). Interoperable and globally compliant, it adheres to local regulations (ETSI, FCC, Morocco, Peru, Australia, India...), ensuring worldwide compatibility.

STANDING THE TEST OF TIME

SPECTRE nano features an IK10-certified vandal-resistant structure, providing optimal protection against impacts and malicious acts. With its IP65 certification, it is perfectly suited for outdoor installation, even in challenging environments such as those with vibrations, dust, harsh weather, or saline conditions.

APPLICATIONS

- **Parking Access: corporate, government, municipalities, industrial sites, etc.**
- **Shared Vehicle Management**
- **Sensitive Sites**
- **Gated Communities**
- **Bus Stations**
- **Remote Parking Facilities (...)**

*See 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), India ... • **902 - 928 MHz**: 915 MHz FCC Part 15 (USA), Australia, New Zealand, Philippines, Peru ... Bluetooth®
Credential Compatibility	EPC1 Gen 2 / ISO18000-63 STid Mobile ID® (Bluetooth® virtual card) 4 possible configurations: UHF only, UHF or Bluetooth®, UHF then Bluetooth®, Bluetooth® then UHF
Functions	**Connected to the Access Control System** Read-only EPC (UHF) / CSN (Bluetooth®) or secure encrypted/signed EPC (UHF) / Private ID (Bluetooth®) Protocol-driven operation (read/write) **Standalone Mode** Whitelist stored in the reader, configurable via ULTRYS or STid services
Communication Interfaces / Protocols	· Standard TTL output: ISO2 protocol (Clock&Data) or Wiegand · RS232 with SSCP® v1 & v2 secure communication protocols · RS485 with SSCP® v1 & v2 secure communication protocols; OSDP™ v1 (plain text) and v2 (Secure Channel Protocol)
Antenna	Integrated antenna with circular polarization
RF Power	Up to 27 dBm (adjustable power)
Reading Distances*	Up to 6 m (20 ft) with ETA tag and TeleTag® passive tag Up to 20 m (66 ft) with a Bluetooth® smartphone Adjustable reading range on each reader The reading range may vary depending on the type of vehicle, the installation conditions and the local regulations allowed.
Data Protection	Software protection and EAL5+ certified crypto processor for secure key storage
Light Indicator	1 LED 7 colors (green, red, blue, orange, purple, turquoise, white) Configurable by UHF card, USB cable, software or controlled by external command (0V)
Audio Indicator	Integrated buzzer with adjustable intensity / Configurable by UHF card, USB cable, software or controlled by external command (0V) depending on interface. Can be activated / deactivated by jumper
Input / Output (I/O)	1 input (for control by ground loop / presence detector...) - 1 output (to control traffic lights...)
Relay	1 power relay of 24 VDC 2A (control of a barrier...)
Power Requirement	900 mA / typically 12 VDC / 1.5 A / 12 VDC max
Power Supply	From 9 VDC to 36 VDC (typically 12 VDC)
Connectors	8-pin plug-in screw terminal block (0.1 in) and cable gland
Materials	Black ABS and polycarbonate (ABS-PC) / Aluminum - White version available as a customization option
Dimensions (h x w x d) / Weight	185 x 230 x 35 mm (7.2 x 9 x 1.4 in) (general tolerance following ISO NFT 58-000 standard) / 1.25 kg (35.3 oz)
Operating temperatures	-30°C to +60°C / -22°F to +140°F
Storage temperatures	-40°C to +65°C / -40°F to +149°F
Tamper function	Detection of the opening of the cover by infrared sensor and mechanical switch with possibility of erasing the keys and/or message to the controller
Protection / Resistance	IP65 certified - Weather, water, and dust resistant / Humidity: 5 - 95% / IK10 certified vandal-proof front face structure
Mounting	Supplied with wall mounting bracket Compliant with VESA 75 x 75 universal mounting kits (optional) · Adjustable wall-mounting kit · Pole-mounted
Certifications	CE (Europe), FCC (USA), IC (Canada), UKCA (United Kingdom), India (BIS & WPC/ETA), Morocco (ANRT), New Zealand, Australia, Peru, Philippines, UL, RoHs
Part numbers X: versions = 4 - 865 - 868 MHz; 5 - 902 - 928 MHz Morocco Versions: add an «M» at the end of the P/N / New Zealand: add «NZ.» / Australia: add «AU.» / Peru: add «PE.» / Philippines: add «PH»	Read only - TTL — SNA-RX1-A/BT4-xx/1 Read only - RS232 — SNA-RX2-A/BT4-5AB/1 Read only - RS485 — SNA-RX3-A/BT4-7AB/1 SSCP® v1 & v2 protocol - RS232 — SNA-WX2-A/BT4-5AX/1 SSCP® v1 & v2 protocol - RS485 — SNA-WX3-A/BT4-7AX/1 OSDP™ v1 & v2 protocol - RS485 — SNA-WX3-A/BT4-7OS/1 Pre-configured reader - Standalone mode — SNA-RX1-A/BT4-SA1/1

DISCOVER COMPANION PRODUCTS

UHF windshield tags and labels
UHF or dual frequency cards and key fobs

Smartphones / Bluetooth® connected watches
STID MOBILE ID®

ULTRYS Version 2
Programming and encoding kit

*Attention: information on communication distances: measured at the center of the antenna, depending on the positioning of the vehicle, the antenna configuration, the installation environment of the reader, the supply voltage, and the local regulations in effect. External disturbances can cause the reading range to decrease. The reading performance depends on the positioning of the tag and the type of windshield. Impervious windshields can affect reading performance. It is imperative to place the tag in the resist zones.

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