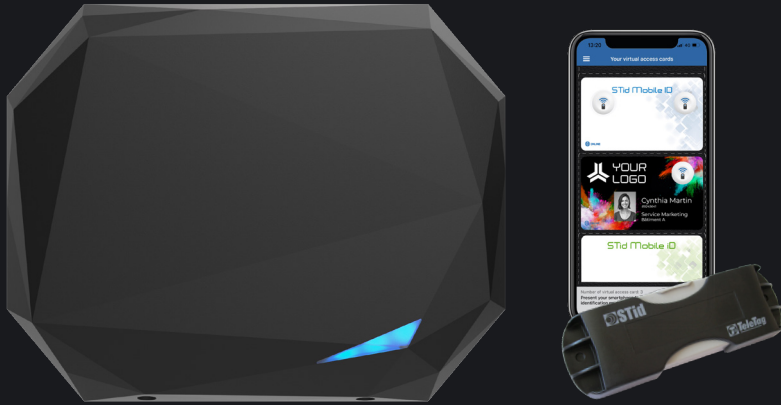


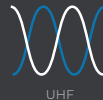
# UHF & BLUETOOTH® MULTI-TECHNOLOGY READER

## MIXED VEHICLE & DRIVER IDENTIFICATION



### BENEFITS

- Hands-free identification of the vehicle and/or the driver
- Highly adaptable and secure identification
- Visual and audio user feedback
- Interoperable and multi-protocol



UHF



BLUETOOTH®



TTL  
RS232  
RS485



EAL5+



IP65

Resistant



Vandal-proof  
IK10

SPECTRE nano, the most compact UHF and Bluetooth® reader on the market, improves the user experience while securing and eliminating vehicle access lines.

### MULTI-TECHNOLOGY AT THE SERVICE OF INSTINCTIVE IDENTIFICATION

SPECTRE nano facilitates access control for vehicles and drivers with different profiles (visitors, employees, tenants, etc.) thanks to multiple identification technologies.

#### Passive UHF technology

The reader provides UHF identification up to 6 m (20 ft)\*.

The passive credentials (without battery) require no maintenance and have an unlimited life span.

#### Bluetooth® Smartphones

The reader offers many identification modes - long distance, hands-free or Proximity - to make your access control both secure and instinctive!

Fully integrated into the STid Mobile ID® ecosystem, SPECTRE nano allows users to use their virtual card for both parking and pedestrian access.

### Mixed identification

SPECTRE nano reads heterogeneous identifiers:

- the virtual card for smooth management of visitor and employee access,
- the UHF windshield tag for tracking vehicle fleets,
- both simultaneously for vehicle and driver identification.

### SECURITY CONTROLLED FROM END-TO-END

The reader benefits from the highest levels of security, guaranteeing the authenticity and confidentiality of data, using encryption methods recognized and recommended by independent organizations (ANSSI, FIPS, etc.):

- encrypted / signed credentials to ensure anti-cloning and anti-replay protection,
- EAL5+ certified key storage,
- self-protection function to erase security keys,
- secure end-to-end bidirectional communication using SSCP® and Open Supervised Device Protocol (OSDP™) protocols.

### EASY TO INSTALL

The reader can be configured in few seconds via USB cable, UHF card or protocol.

Its VESA 75 x 75 standard compatible mounting system allows for optimal wall or pole installation regardless of the site configuration.

### STANDING THE TEST OF TIME

It integrates a reinforced vandal-proof structure IK10 to resist shocks and malicious acts. IP65, it is designed for outdoor installation in harsh environments: vibration, dust, heavy rain, saline environments, etc.

### APPLICATIONS

- Parking access: tertiary, administration, communities, industries...
- Shared vehicle management
- Sensitive sites
- Visitor management
- Two-wheeler identification
- Bus stations (...)

## CHARACTERISTICS

Operating frequency / Standards	UHF - 2 versions: - <b>865 - 868 MHz</b> : 866 MHz ETSI (Europe), Morocco (regulation n°ANRT/DG/n°7-10), etc. - <b>902 - 928 MHz</b> : 915 MHz FCC Part 15 (USA), Australia, New Zealand, etc. Bluetooth®
Chip Compatibilities	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	Read only EPC (UHF) / CSN (Bluetooth®) or secure EPC encrypted / signed (UHF) / private ID (Bluetooth®) Controlled by protocol (read/write)
Communication interfaces	- 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 <b>Up to 20 m (66 ft) with a Bluetooth® smartphone</b> Adjustable reading range on each reader <i>The reading range may vary depending on the type of vehicle, the installation conditions and the local regulations allowed.</i>
Data protection	Yes - 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, software or controlled by external command (0V)
Audio indicator	Integrated buzzer with adjustable intensity Configurable by UHF card, 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") 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" / 1.25 kg / 35.3 oz
Operating temperatures	From - 30°C to + 60°C / From - 22°F to + 140°F
Storage temperatures	From - 40°C to + 65°C / From - 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) and UL
Part numbers X : versions = 4 - 865 - 868 MHz; 5 - 902 - 928 MHz	Read only - TTL .....SNA-RX1-A/BT4-xx/1 Secure read only - RS232 .....SNA-RX2-A/BT4-5AB/1 Secure read only - RS485 .....SNA-RX3-A/BT4-7AB/1  Operates using SSCP® protocol v1 & v2 - RS232 .....SNA-WX2-A/BT4-5AX/1 Operates using SSCP® protocol v1 & v2 - RS485 .....SNA-WX3-A/BT4-7AX/1 Operates using OSDP™ protocol v1 & v2 - RS485 .....SNA-WX3-A/BT4-7OS/1

## DISCOVER OUR CREDENTIALS AND OUR ERGONOMIC MANAGEMENT TOOLS



**TeleTag® & ETA**  
UHF windshield tags and labels



**CCT & PCC**  
UHF or dual frequency cards and key fobs



**STid Mobile ID® application**  
Smartphones / Bluetooth® connected watches



**ULTRYS** programming kit and SSCP® and OSDP™ protocols



**STid Mobile ID® Online Portal**  
Web-based platform for remote management of your virtual cards

\* 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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