



# QxControl™ & STiD SPECTRE NANO

## UHF & BLUETOOTH® MULTI-TECHNOLOGY READER MIXED VEHICLE & DRIVER IDENTIFICATION

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



### HIGHLIGHTS

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

### 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\*. 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

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

- 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.

### APPLICATIONS

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

## SPECIFICATIONS

Operating frequency / Standards	UHF - 2 versions: -865 - 868 MHz: 866 MHz ETSI (Europe), Morocco (regulation n°ANRT/DG/n°7-10), etc. -902 - 928 MHz: 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 & 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 with ETA tag and TeleTag® passive tag Up to 20 m 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	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 card (classic or virtual with STid Settings application), software, or controlled by external command (0V)
Audio indicator	Integrated buzzer with adjustable intensity Configurable by card (classic or virtual with STid Settings application), 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)
Connections	8-pin plug-in screw terminal block (0.1") and cable gland
Materials	ABS and polycarbonate (ABS-PC) / Aluminum
Dimensions (h x w x d)	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 switch	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) and UL



### Part Numbers:

#### READ ONLY

TTL:	<b>SNA-RX1-A/BT4-XX/1</b>
RS232:	<b>SNA-RX2-A/BT4-5AB/1</b>
RS485:	<b>SNA-RX3-A/BT04-7AB/1</b>

#### CONTROLLED BY PROTOCOL

SSCP® v1 & v2 - RS232:	<b>SNA-Wx2-A/BT4-5AX/1</b>
SSCP® v1 & v2 - RS485:	<b>SNA-Wx3-A/BT4-7AX/1</b>
OSDP™ v1 & v2 - RS485:	<b>SNA-Wx3-A/BT4-7OS/1</b>

\*Our readers only read the iCLASS™ chip serial number / UID PIC01444-3B. They do not read iCLASS™ cryptographic protection or the HID Global serial number / UID PIC0 15693.

\*\*Caution: information about the distance of communication: measured from the center of the antenna, depending on the type of credential, size of the credential, operating environment of the reader, temperatures, power supply voltage and reading functions (secure reading). External interference may reduce reading distances. Legal: STid, STid Mobile ID® and Architect® are registered trademarks of STid SAS. All trademarks mentioned in this document belong to their respective owners. All rights reserved – This document is the property of STid. STid reserves the right to make changes to this document and to cease marketing its products and services at any time and without notice. Photos are not contractually binding.