STid
Electronic Identification

125 kHz
13.56 MHz

Read only version

LXS HYBRID

125 kHz (EM, HID, Nedap, Crosspoint)
+ 13.56 MHz (Mifare Ultralight, Mifare Classic, Mifare Ultralight C, Mifare Plus, DESFire, DESFire EV1, NFC, CPS3, Moneo)

TTL RS232 RS485 SIS Vandalproof

A must-have reader for all technology migration projects!

The HYBRID from STid brings together 125 kHz proximity identification technology and 13.56 MHz Mifare® & DESFire EV1® identification technologies to give you the best of both worlds for your security or e-money applications.

HYBRID 125 KHz + 13.56 MHz reader for easy migration

The LXS **HYBRID** is a rugged, vandal-proof proximity reader that brings together 125 kHz and 13.56 MHz. The advanced security and programming functions mean that a wide range chip technologies are easy to use - EM, HID, Nedap, Crosspoint and compatible with ISO14443 A and 3B and ISO18092: Mifare Ultralight, Classic (1kB, 4kB), Ultralight C, Mifare Plus (S and X, 2kB and 4kB), DESFire, DESFire EV1 and specific applications like CPS3 cards, NFC transactions or Moneo cards. If you need to set up a complex multi-site configuration, the LXS **HYBRID** can be used to read a range of different cards: technology migration becomes easy, whatever the configuration you use.

High security

The LXS **HYBRID** 125 kHz + 13.56 MHz supports the latest Mifare® contactless technologies and their new data protection and security features. They use all the new and possible security algorithms of these chips: Crypto1, DES, TDES, AES, etc.

Card Configuration feature

The LXS **HYBRID** 125 kHz + 13.56 MHz readers are completely user programmable with configuration cards. These cards are made to set up card reading security parameters (keys) and all the functional parameters (protocol, led operation, protection, etc.).

HID Nedap Argina MIFARE Plus MIFARE DESFire EV1 NFC CPS3

«Privacy friendly» Mode

The LXS **HYBRID** 125 kHz + 13.56 MHz readers are compliant with the Security of Personal Data (CNIL). The LXS **HYBRID** readers with RS232 (RX2/SX2) and RS485 (RX3/SX3) interfaces ensure the users' privacy and personal data thanks to a special management of unique identification numbers (ISO14443-3B cards). Both, cryptographic hash function and secret key allow you to change the signature according to your applications (private or public contactless applications) in order to respect the anonymity of the user.

Resistance

The LXS **HYBRID** is 125 kHz + 13.56 MHz designed to withstand harsh environments and provides reliable performance with a high degree of vandal resistance. With its extremely strong design, this reader will bring a security feeling to your offices and buildings.

Dual frequency readers

125 kHz	13.56 MHz
EM4102 EM4150 HID Nedap Crosspoint - Argina	Mifare Ultralight® Mifare Ultralight® C Mifare Classic® Mifare Plus® Mifare DESFire® Mifare DESFire EV1® NFC SMART MX family CPS3 Moneo

LXS HYBRID

125 kHz + 13.56 MHz high security reader

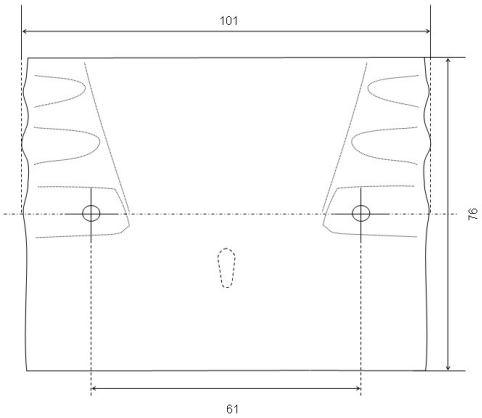
Specifications

Operating frequency/standards	125 kHz 13.56 MHz: ISO14443A, ISO14443-3B (PUPI), ISO18092
Chip compatibility	EM4102 / EM4150 / HID / Nedap / Crosspoint - Argina Mifare Ultralight®, Mifare Ultralight® C, Mifare Classic®, Mifare Plus®, Mifare DESFire®, Mifare DESFire EV1®, NFC, SMART MX family, CPS3 cards, Moneo
Functions	Secure read only (sector, file) or secure protocol (Secure Plus)
Reading distances*	Up to 7 cm with a 125 kHz STid card Up to 5 cm with a 13.56 MHz STid Mifare® card
Communication interfaces	- TTL ISO2 or Wiegand (RX1) - TTL ISO2 or ciphered Wiegand with AES-128bits (SX1) - RS232 / RS485 (RX2 / RX3) - RS232 / RS485 ciphered with AES-128bits (SX2 / SX3)
Connections	Screw terminal: - 9 wires (RX1 / SX1) - 6 wires (RX2 / SX2 / RX3 / SX3) Tamper switch
Bicolor led	TTL: Card configuration and external command (0V) RS232 / RS485: Card configuration or managed by software (SSCP) or external command (0V)
Internal buzzer	TTL: Card configuration and external command (0V) RS232 / RS485: Card configuration or managed by software (SSCP) or external command (0V)
Power requirement	Typical 100mA/12V
Power supply	+7 VDV to +28 VDC
Material	Polycarbonate casing (V0 UL94)
Dimensions	102 x 76 x 20 mm (28 mm with the spacer)
Operating temperatures	- 20°C to + 70°C - Inside / outside use
Tamper switch	Optional with secure wall mount spacer BKCS Detection of tearing (alert message and/or deletion of keys) and/or life signal
Resistance	IP65 (face) / IK10 Vandalproof
Mounting	Wall Mount. Compatible with European flushboxes (supplied with wall mount spacer)
Part number	Secure read-only – TTL: LXS-RX1-E/BF5-xx/y Secure read-only – TTL - Secure Plus: LXS-SX1-E/BF5-xx/y Secure read-only – RS232: LXS-RX2-E/BF5-5AB/y Secure read-only – RS232 - Secure Plus: LXS-SX2-E/BF5-5AB/y Secure Read-only – RS485: LXS-RX3-E/BF5-7AB/y Secure read-only – RS485 - Secure Plus: LXS-SX3-E/BF5-7AB/y Secure read-only – RS485: Compliant with EasySecure interface LXS-RX3-E/BF5-7AA/y *y: Colour of casing (1: black - 2: white)* CE

***Caution**: information about the distance of communication: measured from the centre of the antenna, depending on the type of identifier, size of the identifier, operating environment of the reader, power supply voltage and reading functions (secure reading).

Enrollment Kit
SWEDGE
Enrollment kit to import card numbers directly to any applications (keyboard/wedge emulation).

Programming Kit
SECARD
Creates configuration cards for high-security readers and user cards.



Dimensions in mm

Standard cards
Hybrid Mifare cards

Weneo Pass
(Neowave)

Wristbands

Key holders

Adhesive tags

Approved STid reseller

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