



RFID360 Catalogue 2008

We Make Your RFID Work

OEM Readers/Modules



OEM Reader Read Only 125 kHz
 OEM Reader for Read Only with integrated antenna.
 Interface options: Wiegand or TTL
 Power supply: 5 V
 Reading distance up to 10 cm.
 Supports EM4100 or similar.



OEM Read/Write Module 125 kHz
 Read/Write Module without antenna.
 Interface options: TTL, RS232 or RS485
 Power supply options: 5 V or 12 V
 Different antenna options.
 With external antenna possible to achieve up to 30 cm reading distance.
 Supports EM4100, EM4550 and NXP Hitag1, NXP Hitag2, NXP HitagS.



OEM Reader/Writer 125 kHz
 OEM Read/Write unit with integrated antenna.
 Interface options: RS232 or USB
 Reading distance up to 8 cm.
 Supports EM4100, EM4550 and NXP Hitag1, Hitag2, HitagS.



OEM Read/Write Stick 125 kHz
 OEM Read/Write Stick with integrated antenna.
 USB interface.
 Reading distance up to 5 cm.
 Supports EM4100, EM4550 and NXP Hitag1, Hitag2, HitagS.



OEM Read/Write Module ISO14443 A (Mifare)
 Read/Write Module without antenna.
 TTL interface.
 With external antenna possible to achieve up to 10 cm reading distance.
 Supports NXP Mifare MF0U10 (Ultralight), MF1S50, MF1S70.



OEM Reader/Writer ISO14443 (Mifare)
 OEM Read/Write unit with integrated antenna.
 Interface options: RS232 or RS485
 Reading distance up to 8 cm.
 Supports NXP Mifare MF0U10 (Ultralight), MF1S50, MF1S70.
 Also available as Mini OEM Reader with separate antenna (6 different sizes available).



OEM Read/Write Module ISO15693
 Read/Write Module without antenna.
 TTL interface.
 With external antenna possible to achieve up to 18 cm reading distance.
 Supports ISO15693 tags like NXP I-Code SLI and TI Tag-it HFI.



OEM Reader/Writer ISO15693
 OEM Read/Write unit with integrated antenna.
 Interface options: RS232 or RS485
 Reading distance up to 12 cm.
 Supports ISO15693 tags like NXP I-Code SLI and TI Tag-it HFI.
 Also available as Mini OEM Reader with separate antenna (6 different sizes available).
 OEM Readers/Modules



OEM Read/Write Stick ISO15693
 OEM Read/Write Stick with integrated antenna.
 USB interface.
 Reading distance up to 5 cm.
 Supports NXP I-Code SLI.



OEM Read/Write Module Multitag (ISO14443 AB + ISO15693)
 Read/Write Module without antenna.
 TTL interface.
 With external antenna possible to achieve up to 8 cm reading distance.
 Supports ISO14443 AB (including NXP Mifare family) tags and ISO15693 tags.



OEM Reader/Writer Multitag (ISO14443 AB + ISO15693)
 OEM Read/Write unit with integrated antenna.
 Interface options: RS232 or RS485
 Reading distance up to 8 cm.
 Supports ISO14443 AB (including NXP Mifare family) tags and ISO15693 tags.
 Also available as Mini OEM Reader with separate antenna (6 different sizes available).



OEM Read/Write Module NFC + ISO14443 A
 Read/Write Module without antenna.
 Interface options: TTL, SPI, I_C, USB, S_C, Wiegand
 Power supply options: 3,3 V or 5 V
 With external antenna possible to achieve up to 8 cm reading distance.
 Supports ISO 14443 A (including NXP Mifare family) tags and NFC acc. ISO18092.
 Active-Passive and Active-Active communication is possible.



OEM Reader/Writer NFC + ISO14443 A
 OEM Read/Write unit with integrated antenna.
 Interface options: TTL, Wiegand, RS232, RS485, RS422 or USB
 Supports ISO 14443 A (including NXP Mifare family) tags and NFC acc. ISO18092.
 Active-Passive and Active-Active communication is possible.



OEM Reader/Writer NFC + ISO14443AB
 OEM Read/Write unit with integrated antenna. Ultra thin design.
 TTL interface.
 Power supply options: 3,3 V or 5 V
 Supports ISO 14443 AB (including NXP Mifare family) tags and NFC acc. ISO18092.
 Active-Passive and Active-Active mode is possible.



OEM Reader/Writer Legic Prime
 Very small OEM Read/Write unit with integrated antenna.
 Specially designed for Access Control Applications.
 Interface options: TTL, Wiegand or Clock&Data
 Reading distance up to 5 cm.
 Supports Legic Prime tags (MIM256 and MIM1024).



OEM Reader/Writer Legic Advant
 Very small OEM Read/Write unit with integrated antenna.
 Specially designed for Access Control Applications.
 Interface options: TTL, Wiegand or Clock&Data
 Reading distance up to 5 cm.
 Supports Legic Prime (MIM256 and MIM1024) and Legic Advant (ATC128 - ATC2048).



OEM Reader/Writer Legic Advant Plus
 OEM Read/Write unit with integrated antenna.
 Interface options: RS232, Wiegand or Clock&Data
 Reading distance up to 5 cm.
 Supports Legic Prime (MIM256 and MIM1024) and Legic Advant (ATC128 - ATC2048).
 Application software for reading Legic tags.
 Option: Software for writing Legic tags

Desktop Readers/Encoders



Desktop Reader/Writer 125 kHz
 Encoding unit with Read/Write capability for desktop use.
 Interface options: USB or RS232
 Supports all EM4100, EM4550, NXP Hitag1, NXP Hitag2, NXP HitagS.
 Option: Supports all Atmel (Temic) 5557, 5567, Sokymat Q5
 Comes with application software for Read/Write.



Desktop Reader/Writer ISO14443 A (Mifare)
 Encoding unit with Read/Write capability for desktop use.
 Interface options: USB or RS232
 Supports NXP Mifare MF0U10 (Ultralight), MF1S50, MF1S70.
 Comes with application software for Read/Write.



Desktop Reader/Writer ISO15693
 Encoding unit with Read/Write capability for desktop use.
 Interface options: USB or RS232
 Supports NXP I-Code SLI.
 Comes with application software for Read/Write.



Desktop Reader/Writer 125 kHz "AXR200"
 Encoding unit with Read/Write capability for desktop use.
 USB interface.
 Very nice design with multi-colour illuminated frame.
 Supports all EM4100, EM4550, NXP Hitag1, Hitag2, HitagS.
 Comes with application software for Read/Write.



Desktop Reader/Writer ISO15693 "AXR200"
 Encoding unit with Read/Write capability for desktop use.
 USB interface.
 Very nice design with multi-colour illuminated frame.
 Supports ISO15693 tags like NXP I-Code SLI, TI Tag-it HFI and others.
 Comes with application software for Read/Write.



Desktop Reader NFC/14443 A
 Encoding unit with Read/Write capability for desktop use.
 USB interface.
 Supports ISO 14443 A (including NXP Mifare family) tags and NFC acc. ISO18092.
 Active-Passive and Active-Active communication is possible.
 Option: Also with buzzer available

**Desktop Reader/Writer Legic Advant**

Encoding unit with Read/Write capability for desktop use.

USB interface.

Supports Legic Prime (MIM256 + MIM1024) and Legic Advant (ATC128 -2048).

Application software for reading Legic tags.

Option: Software for writing Legic tags

CF/SDIO Readers



SDIO Reader/Writer 125 kHz "SDID1210"

For use with PDA or mobile device with SD interface.

Supports 125 kHz and 134.2 kHz transponders.

(incl. EM4100, EM4105, EM4550, Sokymat Q5, Temic 5567, NXP Hitag1, Hitag2, HitagS)

Very small design. Reading distance up to 12 cm.

Comes with application software for Read/Write.

SDK available.



SDIO Reader/Writer ISO14443 AB + ISO15693 "SDID1020"

For use with PDA or mobile device with SD interface.

Supports ISO 14443 AB (incl. NXP Mifare family) and ISO15693 transponders.

Very small design. Reading distance up to 8 cm.

Comes with application software for Read/Write.

SDK available.



SDIO Reader/Writer NFC + ISO14443 A "SDID1010"

For use with PDA or mobile device with SD interface.

Supports ISO14443 A (including NXP Mifare family) and NFC acc. ISO18092.

Allows communication to other readers/mobile phones.

Very small design. Reading distance up to 5 cm.

Comes with application software for Read/Write.

SDK available.



CF Reader/Writer 125 kHz "CF-125"

For use with PDA or mobile device with CF interface.

Very small housing. Reading distance up to 10 cm.

Supports EM4100, EM4105, EM4550, Sokymat Q5, Temic 5567, NXP Hitag1, Hitag2,

Hitag S tags.

Comes with application software for Read/Write.

SDK available.



CF Reader/Writer ISO15693

For use with PDA or mobile device with CF interface.

Very small housing. Reading distance up to 6 cm.

Supports ISO15693 transponders like NXP I-Code SLI, TI Tag-it HF-I, Infineon my-d.

Comes with application software for Read/Write.

SDK available.



CF Reader/Writer ISO14443 AB

For use with PDA or mobile device with CF interface.

Reading distance up to 5 cm.

Supports ISO14443 AB tags like NXP Mifare MF0U10 (Ultralight), MF1S50, MF1S70 and

Desfire.

Comes with application software for Read/Write.

SDK available.

**CF Reader/Writer UHF**

For use with PDA or mobile device with CF interface.

Reading distance up to 50 cm.

Read/Write device for ISO18000 - 6B/C transponders (including GEN2).

Comes with application software for Read/Write.

SDK available.

**CF Reader/Writer Legic**

For use with PDA or mobile device with CF interface.

Rugged housing. Reading distance up to 6 cm.

This mobile Read/Write unit has been built for Legic Prime and Legic Advant transponders.

Comes with application software for Read/Write.

SDK available.

Handheld Readers/Terminals/Data Collectors



Data Collector ISO15693 "EzBee"
 ISO15693 RFID Reader for data collection.
 Integrated Mini USB and Bluetooth interface.
 Built-in internal memory for 1000 tag IDs.
 Real Time Clock.
 Reading distance is up to 6 cm.
 LED, buzzer and reading button integrated.



Data Collector ISO15693 Long Range
 ISO15693 RFID Reader for Long Range data collection.
 Reading distance is up to 30 cm + anti-collision.
 Integrated Mini USB and Bluetooth interface, Real Time Clock, LED, buzzers,
 LCD display.
 Built-in internal memory for 1000 tag IDs.
 Ideal for library applications or similar.



The t+t netcom handheld series tt8000 Premium Line provides highest quality mobile equipment. The tt8000 series complies with the IP 65 standard and is thus suitable for use under the toughest conditions. The powerful Freescale i.MX21 processor is an energy-saving device which guarantees highest processing speeds and above-average durability.
 The basic model in the tt8000 Premium Line is equipped with 512 MB ROM storage, two serial interfaces and one USB interface, an MMC and an SD card slot (SDIO Standard), an integrated megapixel camera (1,3MPixel), the VOIP option (voice over IP) as well as the proven standard features common to all t+t netcom series, such as b
 tt8000-seite



tt5000 - Worldpremiere tt5000 on CeBIT
Handheld Series tt5000
 vorneWith the handheld tt5000, t+t netcom offers a cost-effective solution matching to the market requirements in mobile computing.
 This rugged handheld is designed to withstand everyday use in environments like warehouse, retail floor for inventory or hospital. Its small and light design provides maximum user comfort over extended periods of use.



Juno7 - Passive: 125khz, 134khz, 13.56Mhz, UHF - Atcive: 2.4Ghz
 Wireless: W-LAN 802.11b/g or ZigBee
 Protocols: ISO18000-2, ISO11785, ISO18000-3 ISO15693, ISO14443A, ISO 18000-6C, EPC CLASS1 GEN2
 Dimensions: 115x66x22.5 mm

**Handheld Terminal "Recon"**

Microsoft Windows Mobile 5.0 based terminal with very rugged housing.
USB interface, 1 CF-I and 1 CF-II slot for extensions.
RFID integration with 125 kHz, ISO14443 AB, ISO15693 or UHF Reader/Writer possible.
Options: Bluetooth, WiFi, GPRS, barcode reader and others

**Handheld Terminal "Ezit2"**

Microsoft Windows CE 5.0 based terminal with very rugged housing.
USB interface + CF-II slot for extensions + SDIO slot (for memory only).
RFID integration with ISO14443 AB, ISO15693 or UHF Reader/Writer possible.
Options: Bluetooth, WiFi, GPRS, barcode reader and others

**Handheld Terminal "M3++"**

Microsoft Windows CE 5.0 based terminal with rugged housing.
USB interface + miniSD slot for extensions.
Integrated ISO14443 AB Reader/Writer with 2 SAM slots.
Options: Bluetooth, WiFi, GPRS, barcode reader and others
Ideal for public transport applications.

Long Range Reader/Writer ISO15693 (ISO18000-3)



Long Range Reader ISO15693 "EzScan LR"
 Read/Write unit with one antenna channel for up to 2 antennas (with power splitter).
 RS232 interface, auto-tuning function, integrated LCD display, stand alone function.
 Up to 8 W RF power (adjustable).
 Reading distance up to 1,5 m.
 Supports all major ISO15693 transponders.



Long Range Reader ISO15693 "EzScan LRM"
 4 channel Read/Write unit for up to 4 antennas. Integrated Auto tuning function.
 Software controlled antenna outputs. Up to 8 W RF power (adjustable).
 USB + RS232 interface, integrated LCD display, stand alone function.
 Reading distance up to 1,5 m.
 Supports all major ISO15693 transponders.
 Easy integration. SDK available.



Midrange Reader ISO15693 "EzScan MR"
 Read/Write unit for desktop use.
 RS232 interface. Integrated buzzer. RF power 0,5 W.
 Reading distance up to 30 cm.
 Supports all major ISO15693 transponders.



Multiplexer "EzMux-HF8"
 8 channel multiplexer for the connection of up to 8 antennas to one EzScan LR reader.
 The multiplexing function is software controlled. RS232 interface.
 RF input/output via BNC connectors.
 Option: 16 channels



Long Range Evaluation Gate Antenna
 Fully configured gate antenna in plastic tube frame for evaluation.
 Supplied in set with 2 antennas for gate configuration.
 Single loop antenna with integrated antenna tuning board.
 IP54 protection. Connection via BNC connector.
 Ideal if you want to build your own antenna or gate.



Long Range Antenna Gate "EzaX"
 Very robust gate antenna for Access Control or industrial applications.
 Reinforced basis with aluminium single loop antenna.
 Supplied in set with 2 antennas.
 Integrated antenna tuning board. IP54 protection (higher possible).
 The EzScan LR reader can be integrated into the housing.



Long Range Antenna Gate "EzMultix"
Access Control gate antenna with 4 antennas in 2 panels (double loop antennae) for very secure 3-directional reading of tags.
Robust and very nice design with aluminium frame and white side panels.
Integrated red control lights and buzzer.
Recommended operation with the EzScan LRM Reader.

Long Range Panel Antenna
Perfect device for supply chain and library applications.
Standard size 30 x 42 cm.
Integrated antenna tuning board integrated. Connection via BNC connector.
Option: Customized antenna dimensions

Long Range Reader/Writer UHF (ISO18000-6)



Long Range Reader/Writer UHF
 4 channel Long Range Read/Write unit for up to 4 antennas.
 Based on Intel R1000 chipset. USB + RS232 interface.
 Frequency range 860 - 960 MHz (software programmable).
 Up to 10 m reading distance. RF power up to 2W (adjustable).
 Supports all major ISO18000-6 B/C transponders.
 Easy integration. SDK available.



Long Range Antenna UHF "A1"
 Long Range circular polarized high performance UHF antenna.
 Frequency range 860 - 960 MHz
 Very good reading performance.
 Able to read tags in multiple orientation.
 Ideal in combination with Long Range Reader/Writer UHF.



A528 Based on Intel® RFID Technology
 Multi-Regional Support (ETSI EN 302 208 and FCC part 15)
 Gen2 Dense Reader Mode capability
 USB 2.0 Full Speed Device Port
 SW programmable output power (max 500 mW)



A828 Multi Protocol
 ETSI EN 300 220 and FCC part 15 versions available
 UART Serial interface
 Fully upgradeable
 Compact size (37 x 60 x 6.6 mm³)
 OEM Modules for smart label printers and hand held readers



A828A Multi Protocol
 ETSI EN 300 220 and FCC part 15 versions available
 Two output ranges: 60 mW (17 dBm), 200 mW (23 dBm)
 UART Serial interface
 Fully upgradeable
 Compact size (37 x 60 x 6.6 mm³)
 OEM Modules for smart label printers and hand held readers



A941 Multi Protocol
 Four antenna ports
 ETSI 302-208 (865-868 MHz) version available
 ETSI 300 220 (869.525 MHz) version available
 EPC C1 G2, ISO 18000-6B and Philips UCODE EPC 1.19 compliant
 FCC part 15 (902.750 ÷ 927.250 MHz) version available
 RS232 interface
 OEM and IP65 version available



A928 Multi Protocol
 Four antenna ports
 ETSI EN 300 220 compliant
 Multiple host interfaces: RS232, RS485, USB and Ethernet
 Fully upgradeable
 Four programmable digital I/O lines



A948 Multi Protocol
 Four antenna ports
 ETSI EN 302 208, ETSI EN 300 220 and FCC part 15 versions available
 EPC C1 G2 compliant
 Multiple host interfaces: RS232, RS485, USB and Ethernet
 Fully upgradeable



A929 Multi Protocol
 Integrated antenna
 Fully compliant to ETSI 300 220 and FCC part 15 regulations
 EPC C1 G2 compliant
 USB interface
 USB bus powered
 6 I/O lines, buzzer
 No external antenna cable
 Fully upgradeable
 Low power short range/compact reader (1m) PC interfaced
 Designed for use in embedded or desktop environment



UHF gate with a high performance embedded reader, deployed with a single or in multiple antenna configurations. Multiple antennas can increase the detection area, so they are the ideal solution for detecting tagged subjects passing through a gate.

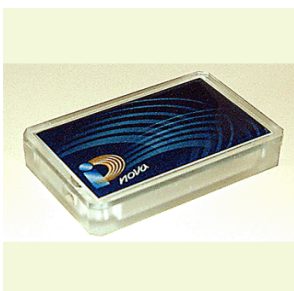
- Hands-free passing
- People tracking
- Reliable access control system
- Time-attendance management
- High reliability in terms of reading/writing operations

This gate system can detect transponders turned towards the gate no matter how they are oriented

High reading/writing performance

Visual and optical system control (fixed and flashing lights, buzzer and signalling siren) to communicate people or goods passing

Communication data module via Wi-fi connection, on demand.



URDD A4 reader takes its name from its DIN A4 dimensions, which make a perfect work companion of it: not too cumbersome to be in the way of the desk operations, not too small, so that multi-item reading can be more easily handled (e.g. books, packages, cards....).

It operated with UHF tags in EPC Class1 GEN 1/GEN 2 and ISO 18000-6B standards, with anti collision features.

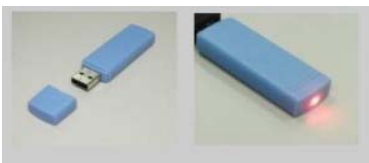
The reader has a built in antenna.

By using the USB communication interface the device can be easily connected to a PC or any other host system.

It is made of plexiglas, thus enabling the user to see clearly when the four control LEDs flash



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 By using the USB communication interface the device can be easily connected to a PC or any other host system.
 It is made of plexiglas, thus enabling the user to see clearly when the four control LEDs flash



Pen reader LF and Mifare Keyboard emulation (HID)
 Dimension: 70mm x 20mm x 9.8mm
 Weight: 0.018 kg
 Availability: EM & Mifare
 Interface: USB 1,1



USB Read/Write Stick - UHF is a small, handy and simple RFID Reader for your USB equipped Terminal and Laptop.
 This UHF reader is using USB v2.0 for the high-speed data transfer.
 This modern UHF Read/Write stick supports all ISO 18000-6 Part B and C Tags and works at the common UHF frequencies from 840 – 960 MHz (EPC Gen2), which makes it usable in Europe, US and Japan. It comes with a configurable software to operate with the frequency ranges of 840 - 960 MHz.

125 kHz Long Range Readers



Long Range Reader 125 kHz
 For Read Only of EM4100 type transponders.
 Rugged housing for outside use (fully encapsulated with Epoxy).
 Up to 70 cm reading distance.
 Integrated buzzer and LED.
 Interface options: Wiegand26, Clock&Data or RS232

Animal ID Readers



Long Range Reader - Animal ID
 134.2 kHz Long Range Reader for Animal ID applications.
 Possibility to connect up to 2 antennas for gate configuration.
 RS232 interface. 2 different antenna options available.
 Corresponds to Animal ID standards (FDX-B, HDX, ISO11784/85).
 Reading distance up to 80 cm.



Handheld ISO Reader "LiveTrack"
 Mobile Reader for Animal ID applications. 134.2 kHz
 Very rugged housing for outside use, 2 different antenna sizes available.
 Interface options: Bluetooth and RS232
 Corresponds to all Animal ID standards (FDX-B, HDX, ISO11784/85)
 2000 tag ID memory, Li-ION rechargeable battery.



Handheld ISO Reader "PetScan"
 Mobile Reader for Animal ID applications. 134.2 kHz. Ideal for pet identification.
 Corresponds to all Animal ID standards. (FDX-B, HDX, ISO11784/85).
 Interface options: Bluetooth and RS232
 Reading distance up to 8 cm.
 Power supply 9 V alkaline battery, LCD display, which shows the tag code.

AXR Access Control System



AXR2000 Terminal

Web based terminal with 8" TFT display. Intel Celeron Processor 400 MHz. 256 MB RAM.

Linux or Windows based version. Integrated audio module with 2 loudspeakers. Standard interfaces: TCP/IP + 5 internal USB, RS232, RS485, CF

Terminal configurable acc. customer request.

Possibility of connecting/control up to 255 RFID readers via RS485 interface.

Options to be integrated: Biometric reader, webcam, GPRS, modem, RFID



AXR1000 Web Server

Web based server as central unit for Access Control application.

Vortex86 Processor 166 MHz. 128 MB RAM.

Standard interfaces: TCP/IP + USB, RS232, RS485

Possibility of connecting/control up to 255 RFID readers via RS485 interface.

Option: Access Control software



AXR200 LF

Access Control Readers/Controllers based on 125 kHz technology.

Possible configurations: 2 I/O ports, relay, Real Time Clock, transit memory up to 1500

events, multi-colour LED frame, buzzer.

For Stand Alone and Network applications (for up to 1000 cardholders).

Interface options: RS485, Wiegand, Clock&Data, WiFi



AXR200 HF

Access Control readers/controllers based on Mifare technology.

Possibility of choosing reading sector.

Possible configurations: 2 I/O ports, relay, real time clock, transit memory up to 1500

events, multi-colour LED frame, buzzer.

For Stand Alone and Network applications (for up to 1000 cardholders).

Interface options: RS485, Wiegand, Clock&Data, TCP/IP, WiFi

AMR Standard Access Control Readers



AMR202 Reader

125 kHz based Access Control Reader for serial number only (EM4100 or similar).

Interface options: RS485, Wiegand, Clock&Data or RS232

It comes with 3 integrated LED, buzzer and a 30 cm pigtail cable.

2 housing dimensions available



AMR212 Reader

NXP Mifare based Access Control Reader for serial number only.

Interface options: RS485, Wiegand, Clock&Data or RS232

It comes with 3 integrated LED, buzzer and a 30 cm pigtail cable.

2 housing dimensions available

Active Systems



LINX Activator "LX2101"

The LINX Activator is a (2.45 GHz) transmitting unit, for power supply the LINX Active Tag and to transmit data according the working mode (Stand Alone or network) Full anti-collision capability.
RS485 interface.
Activation distance: up to 15 m



LINX Receiver "LX2002"

The LINX Receiver is a 433 MHz data reception unit, sending the data received from the LINX Active Tag to the host. It is possible to control multiple LINX Activator/LINX Active Tag configurations. Full anti-collision capability.
Interface options: RS232, RS485, RS422, Clock&Data, Wiegand, TCP/IP or WiFi



LINX Active Tag "LX1004"

The LINX Active Tag is a 2 frequency active transponder (2.45 GHz + 433 MHz). It has internal memory and is Read/Write with full anti-collision capability.
Low power consumption, 5 years battery lifetime possible.



LINX Booster "LX1009"

With the LINX Booster, it is possible to transmit the UID number of an EM4100 Read Only card (or similar) in the same way and the same distance as achieved with the LINX Active Tag.
This gives the possibility to upgrade existing 125 kHz applications.



LINX Desktop Reader/Encoder "LX2500"

Encoding unit to program the functionality of the LINX Active Tags. It is very useful, when you have many tags to read and to combine in a single database.



EASYPASS Antenna "EP2001"

The EASYPASS is a 2.45 GHz activator and 433 MHz data reception unit, receiving ID from the EASYPASS Active Tag. It is ideal for the hands-free automated vehicle access.
Receiving distance: up to 15 m
Available with mono- or omni-directional antenna.

**EASYPASS Active Tag "LX1005"**

The EASYPASS Active Tag is a 2 frequency active transponder (2.45 GHz + 433 MHz).

Low power consumption, 5 years battery lifetime possible.



A new RFID identification system, operating at 2.45 GHz, reliable and suitable for a wide range of environments. Its features and low cost make it the best solution for different applications.

The system consists of a reader, ALR245, and an active tag, ABG245.

The reader is compact with an appealing design, it is even available with IP67 environmental sealing to be employed in harsh environment.

It is available in two models: wired and wireless.

ISOCARDS



Available 13.56 MHz IC technologies
 NXP Mifare MF1S50, Mifare MF1S70, Mifare MF0U10 (Ultralight), Mifare MF1S20 (Mini)
 NXP Desfire MF3ICD41
 NXP I-Code 1, I-Code SLI
 Legic MIM256, MIM1024, Advant ATC1024, Advant ATC2048
 STM SR176, SRIX4K, LRI2K
 TI Tag-it HFI
 Infineon my-d 55V02P, my-d 55V10P
 Inside Picopass 2KS, Picopass 32KS
 Available 125 kHz IC technologies
 NXP Hitag1, Hitag2, Hitag S512, Hitag S2048
 EM4102, EM4550
 Atmel Temic 5557
 HID ISOProx II, DUOProx II
 Available UHF IC technologies
 NXP U-Code HSL, U-Code EPC Gen2 (868 MHz and 915 MHz)
 Impinj Monza (868 MHz and 915 MHz)
 Personalization and encoding options
 Offset printing Signature panel
 Screen printing Hologram
 Thermo printing Serial number
 Magstripe RFID encoding

Hybrid Cards



Available combinations of different IC technologies for example
 NXP Mifare MF1S50 + EM4102
 NXP I-Code SLI + EM4102
 NXP Mifare MF1S50 + NXP I-Code SLI
 NXP Mifare MF1S50 + Infineon SLE5542
 EM4102 + Infineon SLE5542
 Atmel Temic 5567 + Infineon SLE5542
 Other combinations are available on request.
 Personalization and encoding options
 Offset printing Signature panel
 Screen printing Hologram
 Thermo printing Serial number
 Magstripe RFID encoding

RFID Keyfobs



Keyfob "DROP"

Keyfob with very attractive 2 colour design. Waterproof.

Available housing colours: black, red, blue, green, yellow. White cover

Personalization options: Laser engraved serial number, printed logo

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4102, EM4550, Atmel Temic 5567. Other IC types on request.



Keyfob "ECO"

Keyfob with a very good price/performance ratio.

Ultrasonic sealed and absolutely waterproof.

Available colours: grey, black, red, blue, green, yellow, white.

Personalization options: Printed serial number

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4102, EM4550, Atmel Temic 5567. Other IC types on request



Keyfob "SAIL"

Keyfob with very nice design. Semi-transparent housing, which shows the transponder technology inside. Ultrasonic sealed and absolutely waterproof.

Available colours: blue, red, grey.

Personalization options: Laser engraved serial number

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4102, EM4550, Atmel Temic 5567. Other IC types on request



Keyfob "EVOLUTION"

Keyfob with very nice design. Keyfob can be printed and personalized like an ISO card.

4 different designs and formats available.

Personalization options: Photo personalization, printed serial number

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4102, EM4550, Atmel Temic 5567. Other IC types on request.



Epoxy Keyfob

Very robust keyfob realized with laminated epoxy material.

Drop design. Only 1,6 mm thick.

Personalization options: Printed serial number (white)

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4102, EM4550, Atmel Temic 5567. Other IC types on request.

RFID Wristbands



RFID Wristband "WRIST-FIT"

Very robust wristband with PVC strap. Sealed ABS housing. Metal closure. Absolutely waterproof.

Choice of housing colours: black, blue, red, green, yellow

Personalization options: Printed serial number, printed logo.

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4102, EM4550, Atmel Temic 5567. Other IC types on request.



RFID Silicone Rubber Wristband

Very flexible and robust silicone wristband with integrated RFID tag. Waterproof. Available colours: blue, red, green, yellow, black, white.

Personalization options: printed logo

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4102, EM4550, Atmel Temic 5567. Other IC types on request.



RFID Wristband "WRIST-FIT Velcro"

Very flexible and robust Velcro wristband with integrated RFID tag. Absolutely waterproof.

Available colours: blue, grey.

Personalization options: stitched logo, colours acc. customer request.

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4102, EM4550, Atmel Temic 5567. Other IC types on request.



RFID Wristband "EVOLUTION"

Very robust wristband with PVC strap. PVC/Epoxy housing. Metal closure. Absolutely waterproof.

Standard colour is white. Can be printed like an ISO card acc. to your request.

Personalization options: Printing, barcode and serial number

Available with NXP Mifare MF1S50, NXP Mifare MF0U10, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4102, EM4550, Atmel Temic 5567. Other IC types on request.



Single use RFID Wristband

Single use wristband for the one time use.

Standard colour is white. Can be colour printed acc. to your request.

Personalization options: Printed logo, barcode and serial number

Available with NXP Mifare MF1S50, NXP Mifare MF0U10, NXP I-Code SLI
Other IC types on request.

RFID Disc Tags



PET Disc Tags

Transparent tag with very good price/performance ratio. 0,6 mm thick.

Available diameters: 20 mm, 25 mm, 27 mm, 30 mm, 50 mm.

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4100,

EM4550, Atmel Temic 5567. Other IC types on request.



PVC Disc Tags

Laminated tag with the performance of an ISO-card.

Available with printing. 0,8 mm thick.

Available diameters: 20 mm, 25 mm, 30 mm, 50 mm.

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4100,

EM4550, Atmel Temic 5567. Other IC types on request.



ABS Disc Tags

Robust tag for warehouse and industrial applications. 2,0 mm thick.

Available diameters: 17 mm, 22 mm, 30 mm and 50 mm.

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4100,

EM4550, Atmel Temic 5567. Other IC types on request.



Epoxy Disc Tags

Very robust tag for industrial applications up to 90 °C operating temperature. 1,6 mm thick.

Available diameters: 30 mm, 50 mm. With/without centre hole available.

Available with NXP Mifare MF1S50, NXP I-Code SLI, NXP Hitag1, NXP Hitag2, EM4100,

EM4550, Atmel Temic 5567. Other IC types on request.

Smartlabels and Tickets



Adhesive Labels - 13.56 MHz

Available dimensions: 28 x 45 mm, 38 x 38 mm, 45 x 45 mm, D=30 mm, ISO card size.

Delivery on reel. Printable surface.

Available with NXP I-Code SLI, NXP Mifare MF1S50, NXP Mifare MF0S10 and TI Tag-it HFI

Other IC types on request.



Adhesive Labels - UHF

Available dimensions: ISO card size. 865 MHz or 915 MHz

Delivery on reel. Printable surface.

Available with NXP U-Code EPC Gen 2, NXP U-Code HSL, Impinj Monza



CD/DVD Labels

Very thin adhesive label for the application on CD or DVD.

Dimension: Dia 40 x 0,6 mm

Available with EM4102 or NXP I-Code SLI



Paper Tickets

Low cost alternative to ISO cards. 0,5 mm thick.

Available in blank white or printed.

Available with NXP I-Code SLI, NXP Mifare MF0U10 (Ultralight), NXP Mifare MF1S50.

Other IC types on request.

RFID Special Tags



Clamshell Cards

Very robust card in clamshell housing. Very durable for long time use. With slot.
 Dimensions: 86 x 54 mm. Thickness: 2 mm
 Options: Ink jet printing, customized logo
 Available with NXP I-Code SLI, NXP Mifare MF1S50, EM4100, Atmel Temic 5567
 Other IC types on request.



Glass Transponders

Tag with ferrite type antenna for animal ID or industrial applications.
 Very good reading performance on the x axis of the tag.
 Option: Available in blister package with barcode and syringe for animal ID application
 Available dimensions: 2 x 12 mm, 3 x 13 mm, 4 x 23 mm and 3 x 34 mm
 Available with EM4102, EM4205, EM4550. NXP HitagS512, NXP Hitag S2048.



On-metal Tags

Robust ABS disc tag for use on metal surfaces thanks to a ferrite shielding on the reverse inner side of the tag.
 Option: Adhesive layer
 Diameter: Dia 50 x 5 mm, with central hole
 Available with NXP I-Code SLI or EM4100



On-metal Labels

Can be used on metal surfaces thanks to a ferrite shielding on the reverse side of the tag.
 Adhesive layer for an easy fixing on metal surface.
 Available dimensions: 20 x 50 mm, 45 x 45 mm, 54 x 86 mm
 Available IC Types: NXP I-Code SLI



Laundry Tags

Rugged laundry tag using RFID module and antenna
 Mechanical dimensions:
 * Diameter: 15mm ± 0.1mm
 * Thickness: 2.4mm ± 0.1mm
 Chip Type:
 * ISO-15693 (Phillips I-Code SLI, EM 4034)
 Electrical:
 * HF operating frequency: 13.56MHz Reader Standard (ISO/IEC 15693)
 Temperature*:
 * Peak Storage: -25°C to +200°C
 * Operating: -25°C to +75°C
 Material:
 * PPS injection with copper wire antenna and module
 * Enclosure rating: IP68



High Temperature Tags
 Very durable high performance tag. Produced with injection moulding technology.
 Can be used in applications with temperatures > 200°C.
 Available dimensions: Dia 50 x 5 mm, with central hole
 Available with NXP I-Code SLI
 Other IC types on request.



UHF Hard Tags
 Robust ABS hard tag with UHF technology. Versions with 868 MHz and 915 MHz available.
 Housing with 2 - 4 holes for easy application.
 Available in 3 dimensions: 110 x 23 mm, 138 x 30 mm, 76 x 76 mm. Thickness: 5 mm
 Available IC Types: NXP U-Code HSL, NXP U-Code EPC Gen2 and Impinj Monza



Cylindric Tags
 Tag used for automotive entry system, car immobilizer and industrial applications.
 Very good reading performance on the x axis of the tag.
 Material: Nylon
 Dimensions: Dia 5 x 18 mm, Dia 5 x 23 mm, Dia 5 x 30 mm
 Available IC Types: NXP I-Code SLI, EM4100, NXP Hitag1, NXP Hitag2, Atmel Temic 5567



Nail Tags
 Nail Tag is very robust tags that can be nailed into wood such as tree, pallets etc.
 Very good reading performance on the x axis of the tag.
 Material: Nylon
 Dimensions: Dia 6 x 35 mm
 Available IC Types: NXP I-Code SLI, EM4100, NXP Hitag1, NXP Hitag 2, Atmel Temic 5567



Cable Tie Tags
 Is a very practical marker tie cable tag. It can apply to various types of material tracking management.
 Material: PVC
 Dimensions : 18 x 30 mm
 Available IC Types: NXP I-Code SLI, EM4100, NXP Hitag1, NXP Hitag2, Atmel Temic 5567



Eartags
 For the identification of cattle of livestock.
 Material : Nylon
 Available with EM4105, EM4205, NXP HitagS



Pigeon Tags

For the identification of poultry or pigeons.

Material: Nylon

Available diameters: 18 mm or 9 mm

Available with NXP I-Code SLI, EM4100, NXP Hitag1, NXP Hitag2, Atmel Temic 5567



Plant Tags

Special tag for the identification of plants or flowers.

Material : ABS with PVC

Dimensions: 155 x 58 x 8 mm

Available with NXP I-Code SLI, EM4100, NXP Hitag1, NXP Hitag2, Atmel Temic 5567



Leather Key ring device containing a RFID module and antenna

Mechanical dimensions:

* Dimension: Customizable dimension

* Thickness: $\geq 3.5\text{mm}$

Chip Type:

* Atmel series, EM series, Hitag series, I-code series, Mifare series

Electrical:

* LF operating frequency: $125\text{kHz}^* \pm 6\text{kHz}$

* HF operating frequency: 13.56MHz Reader Standard (ISO/IEC 15693, ISO/IEC 14443)



Pre-cut adhesive paper labels, delivered on A4 sheets, with RFID module and coil antenna. Thickness to fit into standard ink jet printers. SES (patent pending) technology

Mechanical dimensions:

* Dimension (LxW): 210mm x 297mm

* Thickness: $0.58\text{mm} \pm 0.02\text{mm}$

Chip Type:

* I-code SLI, Mifare S50, Mifare Ultra light

Electrical:

* HF operating frequency: 13.56MHz Reader Standard (ISO/IEC 15693, ISO/IEC 14443)

Temperature*:

* Storage: -25°C to $+65^{\circ}\text{C}$

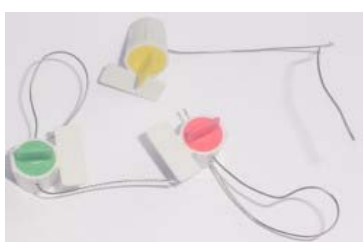
* Operating: -25°C to $+65^{\circ}\text{C}$

Material:

* Ink jet printable paper

* Copper wire antenna and module

* White matt PVC or PETG inlay



Seal Tag

Operating temperature: -20°C - 70°C

Material: PVC



Jewelry Tag
Ø 20mm
Thickness: 2.4 mm
Material: ABS
Operating temperature: -20°C - 85°C
Standard colour: black, white, red, yellow

RFID Cable Tag
Dimension: 43 mm x 30 mm
Hole: 5 mm x 7 mm
Material: PVC
Operating temperature: -40°C - 85°C
Chip available frequency:
125 kHz and 13.56 MHz

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We Make Your RFID Work