

uPASS TARGET

| long-range UHF RFID reader for vehicle identification



KEY FEATURES:

- Reading up to 10 meters [33 ft]
- Industrial reader design
- Operates with passive UHF tags (EPC GEN 2)
- Circular polarized antenna (freedom of tag orientation)
- Easy integration and installation
- On-site adjustable read range (UHF tool)

Nedap introduces the uPASS Target. Based on the passive UHF RFID technology, the uPASS Target offers long-range identification up to 10 meters [33 feet]*. The uPASS Target complies with reading EPC Gen 2 passive UHF tags.

The uPASS Target is a solid solution for long-range identification of vehicles, people and rolling stock. This UHF RFID reader enables access control to gated perimeters as well as close monitoring of traffic flow activities at industrial sites and logistic depots.

Applications

Typical applications for the uPASS Target are:

- High-speed transportation
- Rail yards and bus depots
- Car park facilities
- Internal logistics
- Industrial operations
- Automated truck activities

Plug & Play operation

Like all Nedap systems, the uPASS Target enables easy integration and installation. In only a few steps the uPASS Target is deployed.

Easy integration

The uPASS Target supports seamless integration into any existing or new third party systems for access control, logistic operations, security and parking. It supports a variety of industry-standard communication interfaces, such as Wiegand, Magstripe/Clock & Data, Ethernet (PoE) and serial connections like RS422 and RS485.

Freedom of tag orientation

The uPASS Target features an integrated circular polarized antenna. This intelligent antenna design enables freedom of tag orientation and ensures a consistent read range. The optional external antenna can be added to achieve a wider or more focused read range. Nedap formatted tags are available for added security.

Heavy industrial equipment

The uPASS Target features a connector based interfacing. All terminals are equipped with M12 industrial connectors and contra connectors, according to the latest industrial standards and quality. Thanks to the durable IP66 rated industrial enclosure, the uPASS Target operates solidly in industrial environments and under all-weather circumstances.

Multi-color LED control

The built-in high intensity red, green and blue LED's provide the user with visual feedback whenever the tag is read or authorized. The LED functionality can be controlled in the backend system, but can also be preconfigured.

For more information, refer to the uPASS Target Installation Guide.

**When used according to the recommended guideline as described in the uPASS Target Installation Guide.*

*PRELIMINARY

SPECIFICATIONS

Technical information	uPASS Target
Operating frequency	865-868 MHz uPASS Target Region 1 902-928 MHz uPASS Target Region 2&3 (see HTOG)
Dimensions	286 x 285 x 78 mm [11.26 x 11.22 x 3.01 in]
Weight	3.5 kg (7.72 lbs.)
Housing	Aluminium chassis with UL94 ABS cover
Protection	IP66
Detection range	Up to 10 meters [33 ft] with passive Nedap UHF tags
External antenna connection	1x TNC, supports external (Nedap) antenna
Antenna polarization	Circular polarization
Operating temperature	-30...+60°C [-22...+140°F]
Relative humidity	10...93% non condensing
Power	12...24 VDC supply recommended / PoE+ PSE IEEE 802.3at compliant
Current consumption	1.5A @12VDC, 0.75@24VDC
Identification	Read Only
Input	2 digital input for LED control - active low inputs (0V - 5V) 1 digital input for reader disable - active low inputs (0V - 5V) 1 TNC Nedap UHF antenna
Relay output	1 relay output (NO, common, NC), 24 VDC 2A
Output	Wiegand, magstripe (depending on programmed tag format)
Cable distance	Wiegand -150m [500ft] 22AWG
Interfaces	RS422 / RS485 , Ethernet 10/100Mbps and USB service interface
Communication protocols	CR/LF, DC2/DC4 and various OEM protocols (for more information see firmware manuals). The uPASS Target is OSDP ready.
Air interface	According to ISO 18000-6 C
Certifications	CE, FCC
EMC	European Directive for EMC 89/336/EEC,EN301489-1
Safety	EN 60950
Part nr.	9217363 uPASS Target (Region 1) 9217371 uPASS Target (Region 2&3)
Included mounting accessories	9984364 Wall Mounting Set
Optional mounting accessories	5626595 Pole Mounting Kit 9218335 Weather Protection Hood
Connectors	Cable assembly M12 and IP67 Ethernet connectors are included
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