HD Track Reader

The HD Track Reader is designed for sleeper mounting. Besides reading ID-Tags, the Reader can detect the direction of a train at full speed. The built-in Doppler radar makes the direction detection possible with only one single unit.

KEY FEATURES

▶ Robust heavy-duty design

▶ Integrated mounting fixture

▶ High-speed ID-tag reading

▶ Direction detection option

▶ Ethernet, RS232 and RS485 interfaces

▶ Low RF power output

▶ Linux operating System

The HD Track Reader is a 2.45 GHz RFID device for identification of ID-tags in railway applications. The Track Reader is specifically designed to be installed on a sleeper/tie between the rails. This track mounted position allows the Reader to identify ID-tags located underneath the train as they pass over the Track Reader. The Track Reader incorporates a TagMaster HD Reader and comes complete with integrated mounting fixture and protective cover.

The Track Reader can be connected to external systems through one or more of the standard interfaces, which include RS232, RS485 or Ethernet (TCP/IP), however the Ethernet interface requires an additional external connector, which is available as an option. The Reader is built around a standard Linux operating system and has an open development platform. This enables integrators to develop and implement new applications for the Reader using the TagMaster Software Development Kit (SDK). The SDK enables users to write applications which reside in the Reader or create applications which communicate with the reader via one of the interfaces. The Reader is specifically developed for railway applications and designed according to existing regulations for RFID equipment and additional railway standards.

PART NO. INFORMATION

HD Track Reader	156940

TAGITALIA
RFID Systems & Technologies

TagMaster

CitySync

Reading range	up to 6 metres* (20 ft)
Operating frequency	CW: 2.435 to 2.465 GHz, FHSS**: 2.400 to 2.484 GHz
Dimensions	617 × 242 × 166 mm (24.3 × 9.5 × 6.5 inch)
Weight	8.0 kg (17.6 lbs)
Output power	10 mW e.i.r.p
Power supply	10 to 30 VDC (nominal 24 VDC)
Power consumption	4.5 W
Current consumption	175 mA @ +24 VDC
Memory: Flash/RAM	16MB /32MB
Operating temperature	–40°C (–40°F) to +70°C (+158°F)
Encapsulation	IP67
Mounting	Integrated mounting fixture
Certificates C€0413 ①	CE Certificate according to R&TTE-Directive 1999/5/EC, FCC M39LRXX

* Depends on reader settings and mounting.
** Permissible subject to local regulations.

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Due to TagMaster's continuous effort to develop the products in response to customer needs, the above specifications are subject to change.   07-268-03