HD Reader

Long-Range RFID Microwave Reader

KEY FEATURES:

- Consistent read-range up to 20 ft*
- Designed for demanding applications
- IP67 – no additional weather housing required
- Railway Standards compliant
- EMI tolerant
- RS232, RS485 interfaces and Ethernet option
- High passage speeds up to 249 mph

TagMaster's Heavy Duty (HD) Reader is a 2.45 GHz RFID Reader specifically designed for demanding applications requiring a high environmental classification, including applications in which the Reader is mounted directly underneath a train. This Reader was developed to meet the tough requirements of rail, construction, and logistics industries by conforming to a wide range of industrial and railway standards. The HD Reader is extremely resilient to electrical interference, making it particularly suitable for applications where high levels of electrical noise exist.

Long-Range and Proximity Identification

A long-range 2.45 GHz RFID Tag can be identified at up to 20 feet* using the HD Reader. The read/write Tags used are battery powered, keeping the Tag alert for an instantaneous response to the Reader signal.

High-Speed Identification

The HD Reader's read-range is user configurable. In addition to an extreme tolerance to high electromagnetic fields, the Reader uses digital processing techniques to enable high-speed Tag identification at a velocity of up to 249 mph.

Easy Integration

All of TagMaster's systems support an extensive variety of industry-standard interfaces including an Ethernet (TCP/IP) option, RS232 and RS485 interfaces. The HD Reader features several functions, such as user-programmable capabilities within a Linux Operating System and an extremely low RF power output which helps to bypass all site license requirements.

Applications

The HD Reader is designed for long-range applications in extreme environments such as:

- Rail Bound Transportation
- Metro- and Mass-transit
- Light Rail
- Mainline and High-speed Transportation Systems
- Construction and Logistics Industry Applications

Part No. Information

HD Reader	156640

HD Reader

Long-Range RFID Microwave Reader

SPECIFICATIONS

Technical Information **Part No. 156640**	HD Reader
Read range	Up to 20 ft*
Operating Frequency	2.435 to 2.465 GHz (FHSS** 2.400 to 2.484 GHz)
Operating Temperature	-40°F (-40°C) to +158°F (+70°C)
Dimensions	12.2 x 7.9 x 2.4 in
Weight	7.9 lbs
Power Supply	24 VDC
Power Consumption	4.5 W
Memory: Flash / RAM	16MB / 32MB
Protection	IP67 – no additional weather housing required
Required Mounting Accessories	Standard M8 screws (4 mounting holes)
Cable Conductor	18/2 AWG for Power 22/2 AWG + GND for Interfaces
Certificates & Standards	Complies to EC Directives for EMC; 89/336/EEC (with additional Directive 92/31/EEC), R&TTE Directive 1999/5/EC, Annex IV, Health: 1999/519/EC, EI Safety: EN 60950, EMC: EN 301 489-3 (2000), Radio: EN 300 440 (2001), Radio Safety: EN 60215, FCC: M39LRXX

*Depends on Reader settings and ID-tag

**Permissible subject to local regulations

The information in this document may be subject to change without prior notice.