MAGELLAN TECHNOLOGY

MDR-1109
Desktop Reader

Overview

The Desktop Reader (**MDR-1109**) is an RFID read/write device designed specifically for use in embedded or desktop environments.
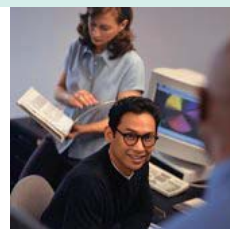
Product Description

The **MDR-1109** operates as a stand-alone peripheral device communicating with a host PC via USB or Ethernet connections.

It is designed for applications where it is required to read and write information to a limited number of stacked or individual tags for administrative purposes, for access control installations or tag issuing procedures.

It is also part of the starter kit which also includes some PJM StackTag® and PJM ItemTag® labels.

The **MDR-1109** features:

- Reliable identification, reading and writing up to 20 PJM StackTag® items with zero separation between tags or to individual PJM ItemTag® labels

- Operates with PJM StackTag® or PJM ItemTag®

- Fast operation with 2 reply channels identifying up to 150 tags per second

- A powerful processing platform allowing for stand-alone reader operation

- Very good connectivity offering both Ethernet and USB interfaces

- Complies with ISO/IEC 18000-3 Mode 2

Specifications

- Read and write operations

- No manual calibration needed

- No user-serviceable parts

- ISO/IEC Compliance: 18000-3 Mode 2

- Operating frequency 13.56 MHz

- Certified for FCC, CE, Canadian and Australian standards

- External dimensions (L x W x H): 146 x 91 x 30 mm

- Net weight: 0.41 kg

- Low voltage input: 12 VDC @ 350 mA

- Operation environment: Indoor use

- Temperature range: +10°C to +45°C

- Humidity: 10% to 80% (non-condensing)

- Minimum host computer requirements: Windows XP SP2/ 500 MHz CPU/ 128MB RAM

- Host interface: USB and Ethernet

- Command data rate of 424 kbit/s

- Reply data rate of 106 kbit/s per channel

- Number of axes: 1

- Number of reply channels: 2

- Operation range:
  0 – 110 mm PJM ItemTag® (76x45 mm, 5 turns)
  0 – 60 mm PJM StackTag® (76x45 mm, 5 turns)

- Tag type: PJM StackTag® and PJM ItemTag®

About Magellan
Magellan Technology Pty Ltd, Sydney, Australia, is a technology developer, manufacturer and licensor of advanced read/write 13.56 MHz RFID systems. Magellan designs and offers RFID chips, inlets, a complete portfolio of reader/writers and operating software. Magellan's Phase Jitter Modulation (PJM) technology complies with the International Standard ISO/IEC 18000 Part 3 Mode 2.