

DESKTOP READER | MDR-3021



Overview

The MDR-3021 Desktop Reader is a low power encoding device designed to issue individual tagged items with ease and accuracy. The read range of the single axis internal antenna is clearly defined on the surface of the device to enable accurate tag placement and readability.

Integrated shielding prevents the accidental programming of adjacent or nearby tags, ensuring that only the tag within the read range of the unit is encoded. The unit is supplied with ReaderManager software that provides a platform for reader setup, configuration, demonstrations, testing and application development. The MDR-3021 offers connection to a PC via Ethernet or USB and is simple to set up and use, straight out of the box.

The MDR-3021 Desktop Reader is suitable for all RFID applicable environments, including healthcare, where other sensitive equipment may be nearby. Its low power design reduces interference with the operation of any nearby equipment and is safe to use around organic material. It is suitable for applications where medium to large sized tagged items need to be encoded individually with accuracy, speed and precision.



FEATURES AND BENEFITS

- » Clearly defined read/write area
- » Fully shielded design to reduce interference in sensitive environments
- » Fast read/write capabilities
- » Excellent connectivity with both USB and ethernet interfaces
- » One dimensional internal antenna

SPECIFICATIONS

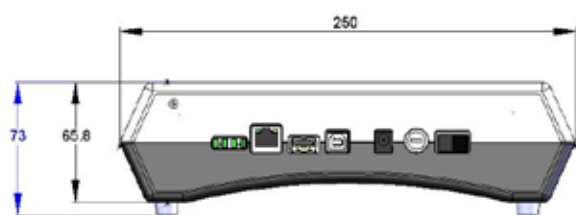


Figure 1. Dimensions (mm) back view

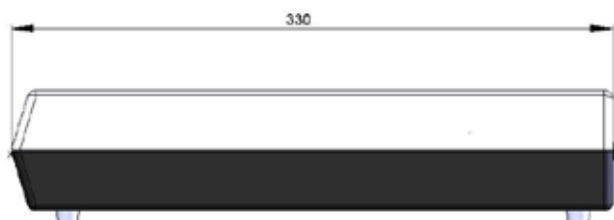


Figure 2. Dimensions (mm) side view

Electrical	
Operating Frequency	13.56 MHz
ISO/IEC Compliance	ISO/IEC 18000-3 Mode 2
Command Data Rate	424 kbit/s
Reply Data Rate	106 kbit/s per channel
Number of Reply Channels	2
Number of Axes	1
Operating Range	Marked read/write area
Power Supply	12 VDC
DC Power Supply Connector	2.5 mm DC centre pin positive
Power Consumption	18W
Performance	
Recommended Tags	See website for Tag Reference Table
Identification rate at 100% accuracy	Up to 150 tags/s
Host	
Host Interface	USB, Ethernet
Minimum Host Requirements	Windows XP SP2 / 500 MHz CPU / 128 MB RAM
Environmental	
Operating Environment	Indoor use
Temperature Range	0°C to +45°C ambient
Humidity	10% to 80% (non-condensing)
Reader Placement	Can be placed next to each other
Mechanical	
External Dimensions: (L x W x H)	330 x 250 x 73 mm
Net Weight	3 kg
Net Volume	0.006 m3
Certifications	
USA	Complies with FCC Part 15 Low Power Communication Device and EN 55022 Class B
Canada	Complies with RSS-210 EMI regulations
Europe (CE Mark)	EN55022, EN 301 489-1 V1.6.1, EN 301 489-3 V1.4.1, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11, EN 60950.1, EN 300 330-1 V1.3.1, EN 300 330-2 V1.3.1, EN 50364, EN 50357, RoHS
Australia	AS/NZS CISPR 22(2006), EN55022, AS/NZS 4268 (2003), AS/NZS 60950, RPS3 (ARPANSA)
Other Features	
Operation	Powerful processing platform allowing for stand-alone reader operation
Calibration and Tuning	No manual calibration or tuning required
Shielding Methods	Field Cancellation



65 Johnston Street, Annandale NSW 2038 Australia
 Ph: +61 2 9562 9800 Fax: +61 2 9518 7620
 E: info@magellan-technology.com
 www.magellan-technology.com

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 PJM 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.