



MSTRP-5050

PJM StackTag® Tunnel Reader



Overview

The Magellan PJM StackTag® Tunnel Reader is designed primarily to work with high speed belt conveyors and in situations where a large quantity of RFID tagged items in all orientations need to be identified quickly and reliably.

Product Description

The **MSTRP-5050** PJM StackTag® Tunnel Reader has an aperture of 500 x 500 mm and is a multi axis tunnel reader which switches the magnetic field rapidly between the three axes of X, Y and Z.

The **MSTRP-5050** will read and write to all PJM ItemTag® and StackTag® labels within the internal working volume of the tunnel despite the orientation of the tags. The tags need to be of a size appropriate to the reader.

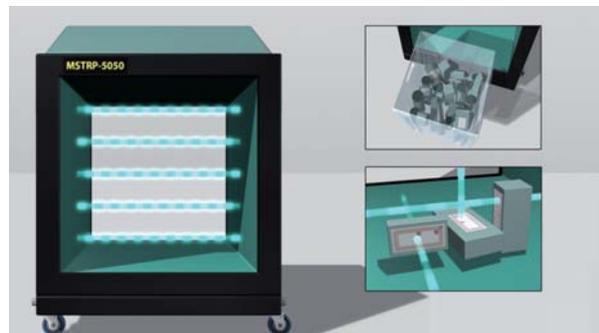
The **MSTRP-5050** features:

- Very high speed identification, reading, writing and verification of multiple tags, up to 600 tags per second
- Capable of writing reliably a unique 96-bit number such as an Electronic Product Code (EPC) at a rate of 50 tags per second
- Ability to identify and read 96-bits at a rate of 250 tags per second
- Reliable identification of tightly stacked, overlapping or touching tags
- Operates with PJM StackTag® and PJM ItemTag® simultaneously
- A powerful processing platform allowing for stand-alone reader operation
- Orientation insensitive reading and writing
- Full ferrite shielding and field cancellation protection
- No interference between tunnels placed closely together
- A very robust heavy duty industrial design
- Very good network connectivity offering a full Ethernet interface
- Complies with ISO/IEC 18000-3 Mode 2



Specifications

- Read and write operations
- No manual calibration needed
- Automatic tuning
- No user-serviceable parts
- ISO/IEC Compliance: 18000-3 Mode 2
- Operating frequency 13.56 MHz



- Internal aperture: 500 x 500 mm
- External dimensions (L x W x H): 1010 x 610 x 710 mm
- Net weight: 120 kg
- Net volume: 0.44 m³
- Shipping dimensions (L x W x H): 1220 x 1000 x 1030 mm
- Shipping weight: 200 kg
- Shipping volume: 1.25 m³
- Operation range: Internal Volume
- 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: Ethernet

- Command data rate of 424 kbit/s
- Reply data rate of 106 kbit/s per channel
- Number of axes: 3
- Number of reply channels: 8
- Tag type: PJM StackTag® and PJM ItemTag®
- Conveyor belt speed: Up to 5 m/s
- Mains input: 110 - 240 VAC @ 50/60 Hz
- Power consumption: 125 W



For further information on technology, delivery terms and conditions and prices please contact your nearest Magellan Technology office:

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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.