



# 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.

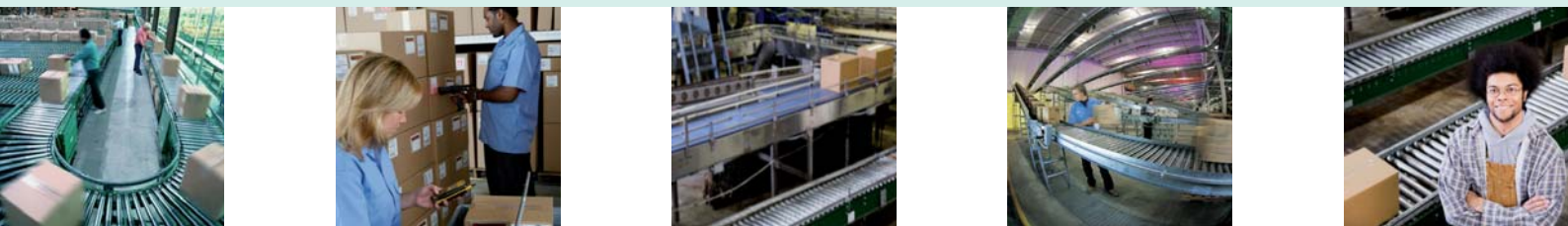
### Product Description

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 using 8 reply channels
- Capable of writing reliably a unique 96-bit number such as an Electronic Product Code (EPC) at a rate of 3,000 tags per minute
- Ability to identify and read 96-bits at a rate of 15,000 tags per minute
- Reliable identification of tightly stacked, overlapping or touching tags
- Operates 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 both Ethernet and USB interfaces
- 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 m<sup>3</sup>
- Shipping Dimensions (L x W x H): 1220 x 1000 x 1030 mm
- Shipping Weight: 200 kg
- Shipping Volume: 1.25 m<sup>3</sup>
- 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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