



TUNNEL READER | MSTRP-5050



Overview

The MSTRP-5050 Tunnel Reader is SATO Vicinity's flagship product. With a large internal volume and multi-axis operation it enables the user to read and write information to thousands of RFID tagged items at a time. Its complete 3 dimensional read capability allows read/write functions while tags are organised in any orientation – even when tightly stacked or touching*.

Complete with internal ferrite shielding, this state of the art tunnel reader can be placed in close proximity to other readers and tags without experiencing any programming interference. SATO's readers are supplied with *ReaderManager* software which provides a platform for reader setup, configuration, demonstrations, testing and application development.

The MSTRP-5050 is suitable for any application where tagged items need to be identified quickly and reliably. Utilised in the logistics and supply chain industries, SATO Vicinity's tunnel readers are especially suited to industries where high value items need to be tracked in real-time: diamonds and precious gems, healthcare and medical industries, (including orthopaedics, dental, blood and reagent tracking) and supply chain operations.

*Subject to tag specifications



FEATURES AND BENEFITS

- » Read up to 600 tags per second
- » Write unique GS1 numbers and Electronic Product Codes at a rate of 50 tags per second
- » Program tagged items in any orientation - even when tightly packed or touching
- » Robust industrial design with full ferrite shielding and field cancellation protection
- » Excellent network connectivity offering a full Ethernet and USB interface
- » Complete integration with PJM Orbit & Assure implant management systems

SPECIFICATIONS

Electrical	
Operating Frequency	13.56 Mhz
Iso/iec Compliance	18000-3 Mode 2
Command Data Rate	424 Kbit/s
Reply Data Rate Per Channel	106 Kbit/s
Number Of Pjm Reply Channels	8
Number Of External Antennas	N/a
Number Of Axes	3
Operating Range	Internal Volume
Compatible Single Axis Antennas	N/a
Antenna Cable Length	N/a
Dedicated I/o	N/a
I/o Connector	N/a
Power Supply	15vdc
Dc Power Supply Connector	2.5 Mm Dc Centre Pin Positive
Mains Input	110 - 240 VAC @ 50/60 Hz
Mains Connector	IEC 320/C14
Power Consumption	75 W
Performance	
Tag Type	Refer Tag Reference Table
Identification Rate At 100% Accuracy	Up To 600 Tags/s
Identify & Read 96 Bits Data At 100% Accuracy	Up To 250 Tags/s
Identify, Write & Read Back 96 Bits Data At 100% Accuracy	Up To 50 Tags/s
Host	
Host Interface	USB And Ethernet (Ethernet cable must be CAT 5 And Shielded)
Minimum Host Computer Requirement	Windows XP SP2/ 500 MHz CPU/ 128MB RAM
Software	
Minimum Firmware Reader Server	Version 3.42.8
Environmental	
Operation Environment	Indoor Use
Temperature Range	+10°C To +45°C
Humidity	10% To 80% (Non-condensing)
Mechanical	
External Dimensions (L X W X H)	1010 X 613 X 694 mm
Internal Aperture	500 X 500 mm
Net Weight	120 kg
Net Volume	0.44 M ³
Shipping Dimensions (L X W X H)	1220 X 1000 X 1030 mm
Shipping Weight	180 kg
Shipping Volume	1.4 m ³

Certifications	
USA	Complies With Fcc Part 15 Low Power Communication Device
Europe (Ce Mark)	EN55022 Class B, 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)
General	
Read And Write Operations	Yes
No Manual Calibration Needed	Yes
Automatic Tuning	Yes
Readers Can Be Placed In Close Proximity To One Another	Yes

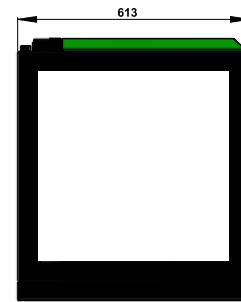


Figure 1. Dimensions (mm) front view

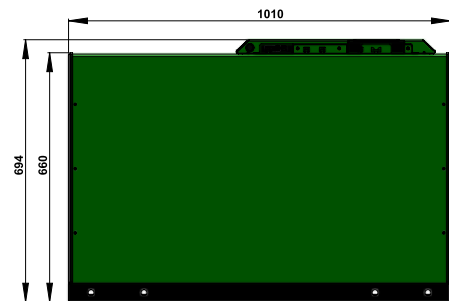


Figure 2. Dimensions (mm) side view

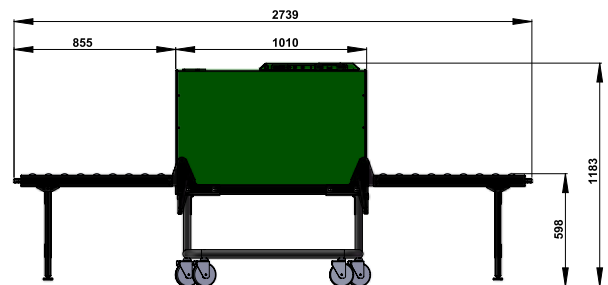


Figure 3. Dimensions (mm) with optional conveyor

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