# MSTRP-4040 Tunnel Reader

The MSTRP-4040 PJM RFID Tunnel Reader is part of SATO's flagship MSTRP Reader series with the ability to read and/or encode any number of closely stacked tags at high speed in any orientation. The class leading design is rugged enough to be used in any environment from warehousing to high speed conveyor fed systems yet sophisticated enough to be placed in hospital CSSD departments of blood processing facilities where the small form factor is highly desirable.

The electronic shielding employed in the design & construction of the MSTRP-4040 reader ensure its suitability for use in most environments including Healthcare, where sensitive equipment may be present – It is even safe enough to be used in hospital operating theatres.

As with all of SATO's PJM RFID readers the MSTRP-4040 provides 100% read accuracy and is supplied with SATO's Reader Manager Software which provides an easy to use platform for reader setup, configuration and testing, ensuring the reader is setup & ready to work with your application in virtually no time.

| 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 Axes | 3 |
| Operating Range | Internal Volume |
| 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 | 75W |
| **Performance** | |
| RFID field produced | 3D |
| Identification rate with 100% accuracy | Up to 600 tags/s |
| Identify & read 96 bits data with 100% accuracy | up to 250 tags/s |
| Identify, write & read back 96 bits data with 100% accuracy | up to 50 tags/s |
| **Host** | |
| Host Interface | USB and Ethernet (Ethernet cable must be shielded (CAT 5/6) |
| Host Computer | Windows 7 or later |
| **Software** | |
| Firmware Reader Server | 3.42.8 or later |
| **Mechanical** | |
| External Dimensions (L x W x H) | 804 x 513 x 590 mm |
| Internal Aperture | 400 x 400 mm |
| Net Weight | 42 kg |
| Net Volume | 0.24m$^3$ |
| Shipping Dimensions (L x W x H) | 1000 x 750 x 870 mm |
| Shipping Weight | 65 kg |
| Shipping Volume | 0.65 m$^3$ |
| **General** | |
| Performs read and write operations ✓ | |
| No manual calibration needed ✓ | |
| Automatic tuning ✓ | |
| Readers can be placed in close proximity to one another ✓ | |
| RFID field unaffected by liquids ✓ | |
| Can read tags with as little as 0.1mm separation ✓ | |
| RFID tags can be presented in any orientation ✓ | |
| Safe to use in medical applications ✓ | |

| Certifications | |
|---|---|
| USA | Complies with FCC Part 15 Low Power Communication Device |
| Europe (CE Mark) | EN55022 Class B, EN 301 489-1 V2.1.1, EN 301 489-3 V2.1.1,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, EN50357, ROHS |
| Australia | AS/NZS CISPR 22(2006), EN55022, AS/NZS 4268 (2003), AS/NZS 60950, RPS3 (ARPANSA), RCM |
| Singapore | Registration Number: N0423-15 |
| Japan (MIC/KS) | MIC/KS: AC-14010 |
| **Environmental** | |
| Operation environment | Indoor use |
| Temperature Range | +10°C to +45°C |
| Humidity | 10% to 80% (non-condensing) |

**Dimensions (mm)**


Figure 1. Front View

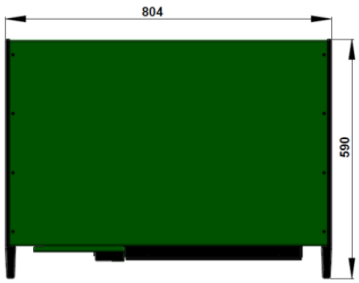


Figure 2. Side View

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