MDR-1109 Desktop Reader

The MDR-1109 is the smallest of SATO's standalone desktop PJM RFID readers. It is a very cost effective reader designed for applications where a limited number of stacked tags or a single tag will be presented to the reader for any purpose such as administrative tasks, access control or for tag issuing operations.

The compact and robust design of the MDR-1109 ensure its suitability for use in most RFID environments including Healthcare, where sensitive equipment may be present - even in operating theatres. The concise clearly defined read area ensures only the desires RFID tag is identified when presented to the reader surface eliminating any ambiguity in tag reading/issuing.

The MDR-1109 Reader is very light weight and portable and the small footprint does not consume valuable desk space, the reader can even be embedded into existing work spaces. As with all of SATO's PJM RFID readers the MDR-1109 is supplied with SATO's Reader Manager Software which provides an easy to use platform for reader setup, configuration and testing, ensuring the MDR-1109 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	2
Number of Axes	1
Power Supply	12VDC
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	6W
Performance	
Operating Range	Marked read/write area
Identification rate at 100% data accuracy	Up to 150 tags/s
Identify & read 96 bits data at 100% data accuracy	Up to 100 tags/s
Identify, write & read back 96 bits data at 100% data 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	TBA
Environmental	
Operation environment	Indoor use
Temperature Range	+10°C to +45°C
Humidity	10% to 80% (non-condensing)
General	
Performs read and write operations ✓	
No manual calibration needed ✓	
Readers can be placed in close proximity to one another ✓	
RFID field unaffected by liquids ✓	
Safe to use in medical application ✓	

Certifications	
USA (FCC)	Complies with FCC Part15 Low Power Communications Device
Australia	AS/NZS CISPR 22(2006), EN55022, AS/NZS 4268 (2003), AS/NZS 60950, RPS3 (ARPANSA)
Europe (CE Mark)	EN55022, EN 301 489-1 V1.6.1, EN 301 489-1 V2.1.1, EN 301 489-3 V1.4.1, EN 301 489-3 V1.6.1, 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 300 330-1 V2.1.1, EN 300 330-2 V1.3.1, EN 50364, EN 50357, RoHS
Malaysia (SIRIM)	Approval Number: RALI/26C/0715/S(15-0143)
Singapore (IDA)	Registration Number: N0421-15
India	Approval Number: NR-ETA/7381-RLO(NR)
Mechanical	
External Dimensions (L x W x H)	146.5 x 92 x 29.4 mm
Net Weight	0.35kg
Net Volume	0.0004 m³
Shipping Dimensions (L x W x H)	320 x 230 x 55 mm
Shipping Weight	1.1kg
Shipping Volume	0.004 m³

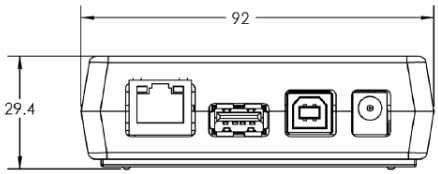

Figure 1. Dimensions (mm) Back view

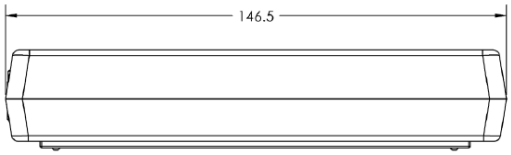

Figure 2. Dimensions (mm) Side view

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