

SRU-DoT2 SRU-DoT4

MAID-00002X-F02X00 INTEGRATED RFID Portal Systems

From designing and manufacturing purpose built antennas and portal enclosures to integrating readers, cables, antennas, power supplies and similar peripherals; Micronetics has the expertise to design and manufacture integrated RFID solutions. These floor mounted RFID Portals encompass up to four circular polarized antennas with integrated cabling that can accommodate all leading brands of RFID readers.



Applications

The Micronetics Portal Systems are capable of identifying RFID tagged items when passing within the RF field of the portal. Our portals are ideally suited for locations such as dock doors or any interior passageway where identifying a product, asset or employee's location is important. Shipping, receiving, material movement, location identification and workflow compliance use cases are just a few of the possible deployments for this versatile portal.

Configurations

Micronetics offers a rugged floor and wall mounted RFID portals with various configurations of circularly polarized antennas elements.

Construction

A galvanized steel frame in conjunction with a high strength thermoformed radome gives the Micronetics RFID portal a structurally rigid frame while also maintaining a sleek, low profile look. A front access panel to power outlets, a reset switch and the reader, make serviceability simple.

- Radome—dent & crack resistant, UV stable dielectric
- Mounting—11 gauge galvanized steel mounting feet
- Two mounting brackets for reader and power supplies



Specifications

Location	North America	Europe
UHF Frequency	902-928 MHz	865-868 MHz
Dimensions	16.9"x77.2"x 9.4"	42.9x196x23.9cm
Weight	47 lbs	21.9 kg
Voltage	110	220
Power	3 outlet power strip with reset and breaker switch	3 outlet power strip with reset and breaker switch
Inputs	Conduit and electrical box for AC power and Ethernet connections	Conduit and electrical box for AC power and Ethernet connections
Operating/Storage Temp	-40°C to +70°C	-40°C to +70°C
Antennas	Integrated circularly polarized with height adjustment brackets	Integrated circularly polarized with height adjustment brackets

Model Number	Description
MAAN-000223-AT0000	LHCP Circular Broad-beam Antenna, N. America
MAAN-000224-AT0000	RHCP Circular Broad-beam Antenna, North America
MAAN-000119-AT0000	Circular Broad-beam Antenna, Europe

Model Number	Description
MAID-000028-F02200	2 Antenna Floor Rack, N America
MAID-000028-F02400	4 Antenna Floor Rack, N America
MAID-000027-F02200	2 Antenna Floor Rack, Europe
MAID-000027-F02400	4 Antenna Floor Rack, Europe

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MICRONETICS

RFID SOLUTIONS

SRU-DoT2 SRU-DoT4

MAID-00002X-F02X00 INTEGRATED RFID Portal Systems

Top Integrated Antenna

(N. America 902-928 MHz)

MAAN-00022X-AT0000 is a mono-static RFID antenna. Low axial ratio (<2.0 dB) and broad beam width (65°) increase read range for all tag types and orientations while low VSWR (1.27:1) keeps reflected power to a minimum to increase read rates.

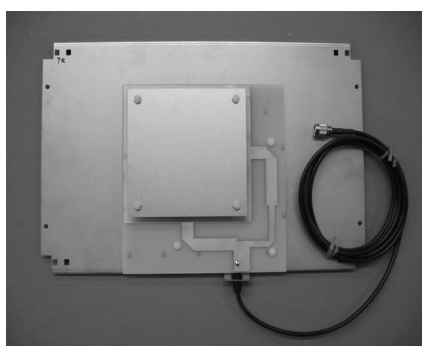
Electrical Features

- High Gain: 6 dBil Typical
- Low VSWR: 1.27:1 Typical
- Beam-width: 65° 3 dB Typical
- Polarization: LHCP or RHCP
- Low Axial Ratio: 1.8 dB Typical

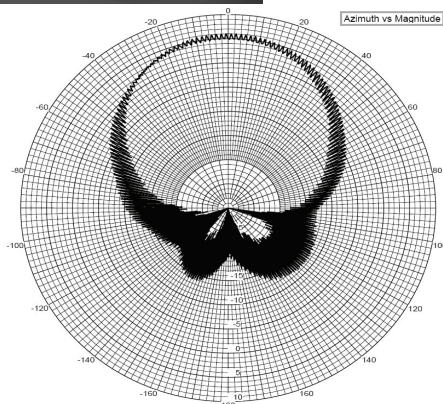
Mechanical Features

- Dimensions: 15.1" x 10.6" x 1.0"
- Weight: 0.75 lbs
- Cable: 8' RG-58 pigtail w/RP-TNC plug

Circular Polarized Mono-Static RFID Antenna



Radiation
Pattern



Circular Polarized Mono-Static RFID Antenna

(Europe 865-868 MHz)

MAAN-000199X-AT0000 is a mono-static RFID antenna for most European applications. Low axial ratio (<1.5 dB) and broad beam width (66°) increase read range for all tag types and orientations while low VSWR (1.25:1) keeps reflected power to a minimum to increase read rates.

Electrical Features

- Gain: 6.2 dB Typical
- Low VSWR: 1.25:1 Typical
- Beam-width: 66° Typical, 3 dB Beam-width
- Polarization: LHCP or RHCP
- 10K Ω Sensing Circuit Resistor

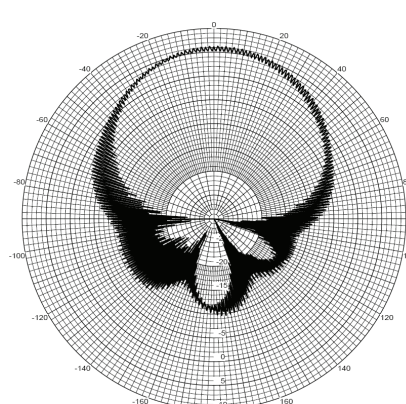
Mechanical Features

- Dimensions: 15.75" x 12" x 0.75"
- Weight: 1.9 lbs

Circular Polarized Mono-Static RFID Antenna



Radiation
Pattern



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