





CMM24513S4

4-Part MIMO Ceiling Mount Antenna 2400-2500 MHz/5150-5875 MHz

The CMM24513S4 is a four-port MIMO indoor wideband omnidirectional ceiling mount antenna. It is designed to provide pattern coverage that is optimized for indoor coverage requirements at 2400-2500 MHz and 5150-5875 MHz. The antenna features a pattern that is specifically shaped to provide optimal performance from a ceiling mount location. The pattern is also very uniform and symmetrical, providing system integrators with the ability to precisely determine cell size.

FEATURES AND BENEFITS

- Low profile aesthetically neutral housing
- Mounts directly and easily to ceiling tile
- Performance optimized using Laird proprietary RF optimization tools
- 2D barcode QR labeling for easy smart phone access to antenna performance data
- Uniform and symmetrical radiation pattern delivers optimum performance

APPLICATIONS

- Office complexes and conference rooms
- Hotels, auditoriums, convention centers
- Airports, bus terminals, train stations
- Museums, libraries, theaters
- Retail stores and malls
- Casinos and entertainment venues

| ELECTRICAL SPECIFICATIONS | | | |
|--|------------------|-----------|--|
| Antenna Model | CMM24513S4 | | |
| Number of Ports | 4 | | |
| Operating Frequency (MHz) | 2400-2500 | 5150-5875 | |
| Gain (dBi) | 2.9 | 3.3 | |
| Efficiency (%) | 73 | 89 | |
| VSWR – Max | 2.0:1 | | |
| Nominal Impedance (Ohms) | 50 | | |
| Max Power - Ambient 25°C (W) | 2 | | |
| Polarization | Linear, vertical | | |
| Vertical Plane 3 dB Beamwidth Port 1 | 68° | | |
| Horizontal Plane 3 dB Beamwidth Port 1 | Omnidirectional | | |

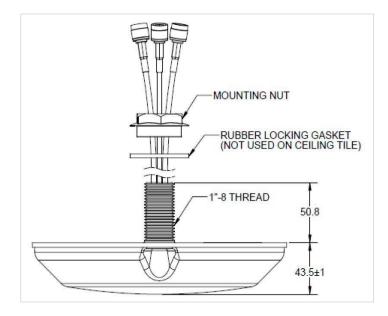
| MECHANICAL SPECIFICATIONS | | |
|----------------------------------|-----------------------------|--|
| Dimensions - W x H - mm (inches) | Ø218.7 × 43.5 (8.61 × 1.71) | |
| Weight - kg (lbs.) | 0.5 (17.64) | |
| Cable Type | RG58, Plenum-rated | |
| Radome Material | ASA (white) | |
| Mounting | Ceiling grid/Suspended tile | |

| ENVIRONMENTAL SPECIFICATIONS | | |
|---|------------------------------|--|
| Operating Environment (Indoor or Outdoor) | Indoor | |
| Operating Temperature - °C (°F) | -30 to +70°C (-22 to +158°F) | |
| Storage Temperature – °C (°F) | -30 to +70°C (-22 to +158°F) | |
| aterial Substance Compliance | RoHS | |

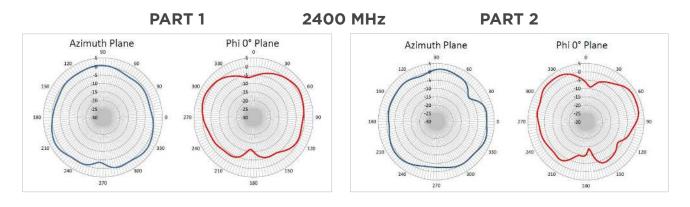
CONFIGURATION

| PART NUMBER | CABLE STRENGTH | CONNECTOR |
|------------------|-------------------|-------------------------------|
| CMM24513S4-91RTN | (36.0 ± 0.59 in.) | 4 x Reverse Polarity TNC Male |
| CMM24513S4-91RSM | (36.0 ± 0.59 in.) | 4 x Reverse Polarity SMA Male |

MECHANICAL DRAWING



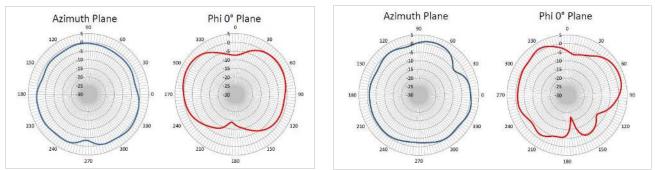
RADIATION PATTERNS



PART 1

2500 MHz

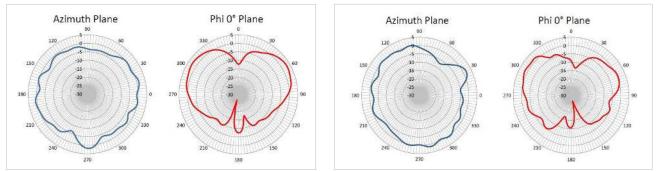
PART 2



PART 1

5150 MHz

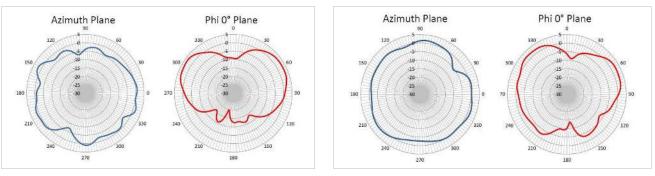
PART 2



PART 1

5875 MHz

PART 2



TE TECHNICAL SUPPORT CENTER

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