



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 x 43.5 (8.61 x 1.71)
Weight - kg (lbs.)	0.5 (17.64)
Cable Type	RG58, Plenum-rated
Radome Material	ASA (white)
Mounting	Ceiling grid/Suspended tile

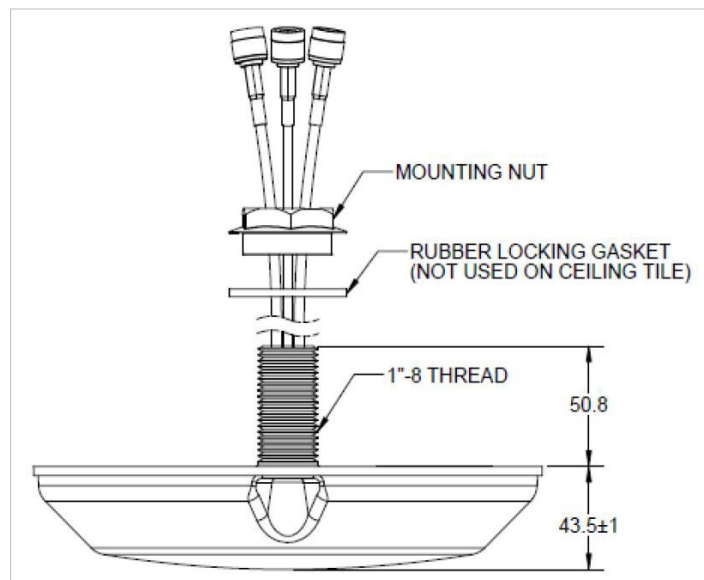
ENVIRONMENTAL SPECIFICATIONS

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)
Material 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

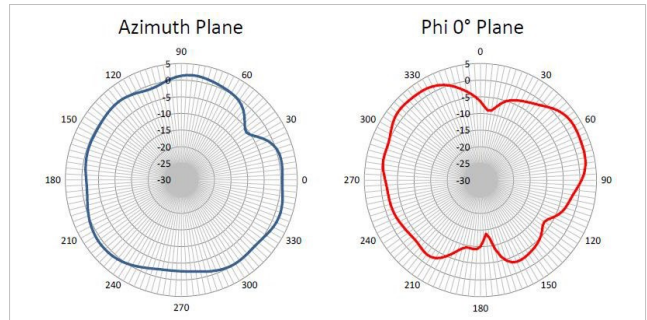
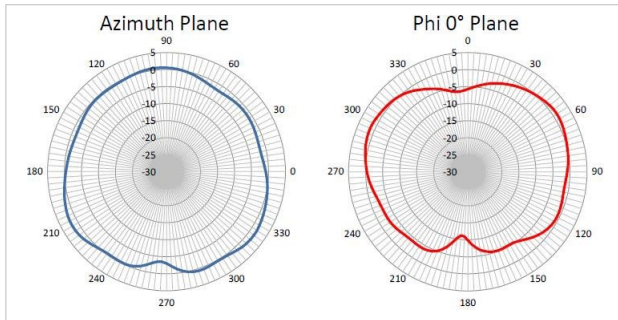


RADIATION PATTERNS

PART 1

2400 MHz

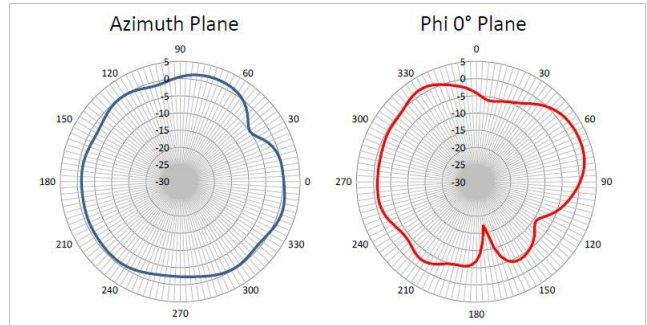
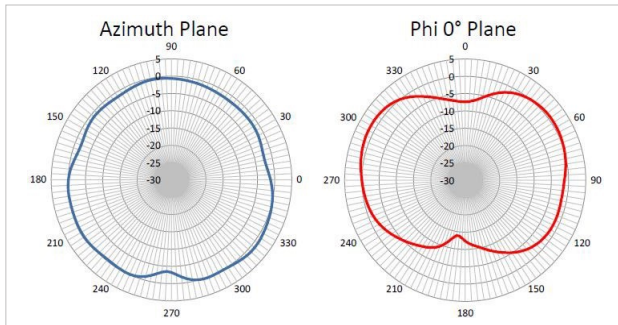
PART 2



PART 1

2500 MHz

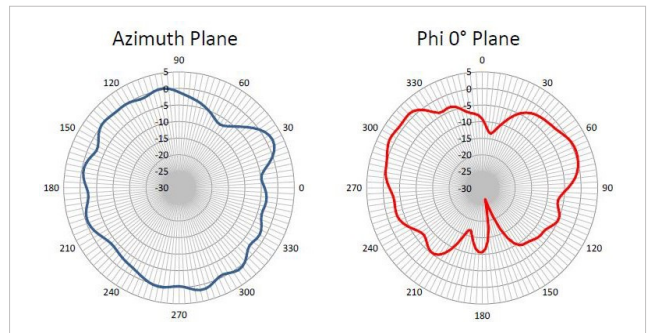
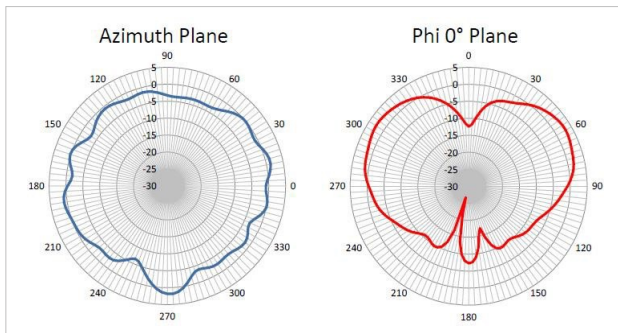
PART 2



PART 1

5150 MHz

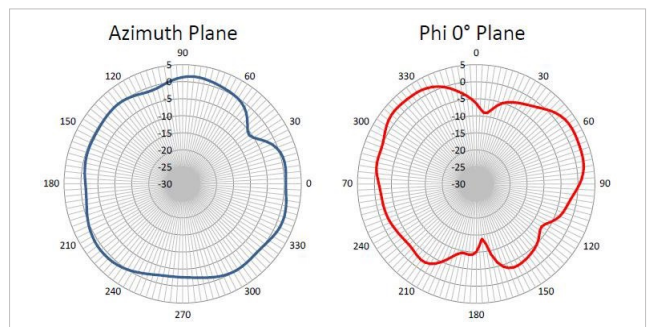
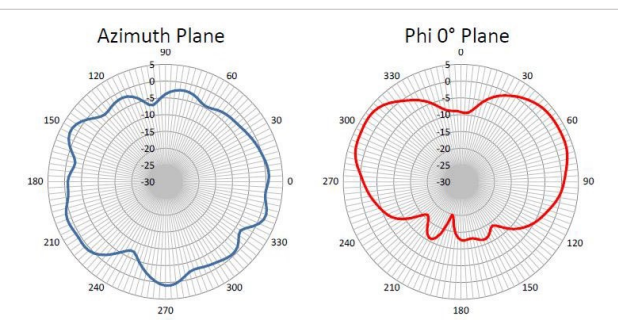
PART 2



PART 1

5875 MHz

PART 2



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