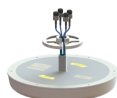


2300 to 2700 MHz/4900 to 5950 MHz 4-port MIMO Ceiling Mount Antenna



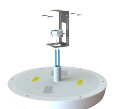
Patent Pending
CMQ23496



(TILE FLUSH MOUNT)
Standard



(ABOVE CEILING TITLE MOUNT)
Part # HKIT-CMX-001



(HARD CEILING EXTENSION MOUNT)
Part # HKIT-CMX-002

4-PORT MIMO MULTI-BAND CEILING MOUNTED OMNIDIRECTIONAL ANTENNA

The Patent Pending CMQ23496 is an indoor broadband 4-port MIMO omnidirectional ceiling mount antenna. It is designed to provide pattern coverage that is optimized for indoor requirements at 2300-2700 MHz and 4900-5950 MHz frequency bands. The individual antenna elements are designed to radiate a pattern that has been specifically shaped to provide optimal radiation within a coverage zone.

FEATURES

- Low Profile aesthetically neutral housing
- Mounts directly and easily to ceiling tile
- Performance optimized using Laird proprietary RF optimization tools
- Excellent flame retardancy rating
- Four radiating elements optimized for indoor applications
- RoHS compliant

MARKETS

- WLAN - 802.11n & 802.11ac
- Building Operators – offices & meeting rooms
- Hospitality – hotels & casinos
- Transportation – airport, bus, & train terminals
- Retail – stores & indoor pedestrian malls
- Education – libraries & museums

BENEFITS

- Provides MIMO/MUMIMO capabilities for multiband 802.11n and 802.11ac applications
- Optional antenna mounting kits are available to accommodate a variety of installation requirements
- Attractive, compact design and form factor ideal for indoor solution applications.

PARAMETER	SPECIFICATION			
Frequency Bands, MHz	2300-2400	2400-2500	2500-2700	4900-5950
Peak Gain, dBi (Typ)	4.4	4.5	4.5	5.4
Peak Gain, dBi (Max)	4.9	5.6	5.6	6.3
VSWR (Typ)	<1.4:1	<1.4:1	<1.8:1	<1.8:1
VSWR (Max)	<2:1	<2:1	<2:1	<2:1
Isolation, dB (Max)	< -17	< -18	< -18	< -24
Port 1->Port 2, dB (Typ)	< -19	< -19	< -19	< -26
Port 1->Port 3, dB (Typ)	< -20	< -21	< -22	< -24
Port 1->Port 4, dB (Typ)	< -20	< -21	< -22	< -25
Port 2->Port 3, dB (Typ)	< -20	< -20	< -21	< -25
Port 2->Port 4, dB (Typ)	< -19	< -20	< -20	< -25
Port 3->Port 4, dB (Typ)	< -19	< -21	< -21	< -26
Number of Ports	4			
Polarization	Linear Vertical			
Azimuth Pattern Beamwidth	Omnidirectional			
Power	10 Watts			
Dimensions (diameter x height)	17.8 cm x 3.2 cm (7" x 1.26")			
Weight	1.18 kg (2.60 lbs.)			
Operating Temperature	-30° C to +70° C (-22° F to 158° F)			
Storage Temperature	-40° C to +85° C (-40° F to 185° F)			
Radome	PC/ABS, UL94-V0, UV STABLE, WHITE			
Cable Type	Ultralink, Plenum Rated			

MODEL NUMBER	CABLE LENGTH	CONNECTOR
CMQ23496-75RSM	4x - 75mm	4x - RSMA Male
CMQ23496-91NF	4x - 91mm	4x - Type N Female
CMQ23496-91RTN	4x - 91mm	4x - RTNC Male

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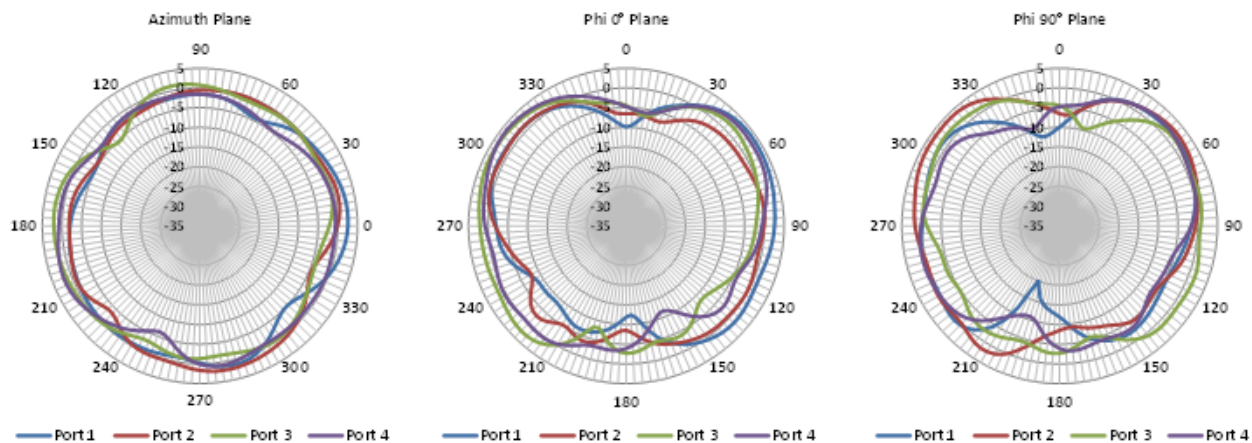
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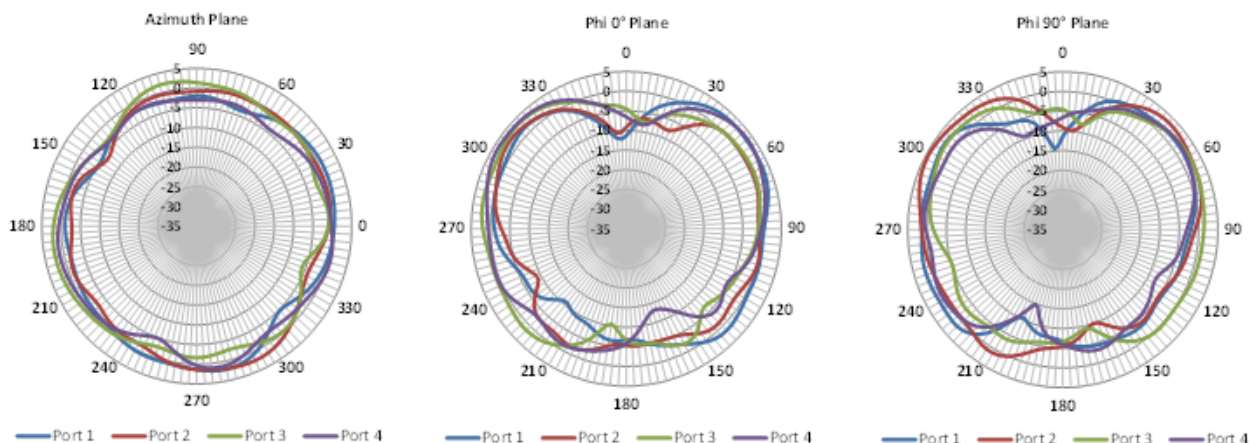
2300 to 2700 MHz/4900 to 5950 MHz 4-port MIMO Ceiling Mount Antenna

RADIATION PATTERNS

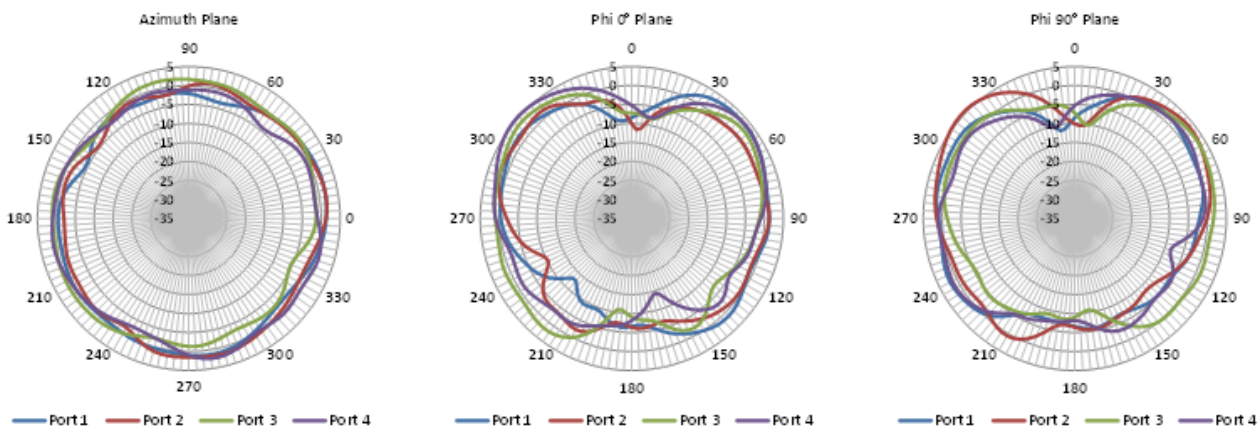
Radiation Pattern at 2300 MHz



Radiation Pattern at 2400 MHz

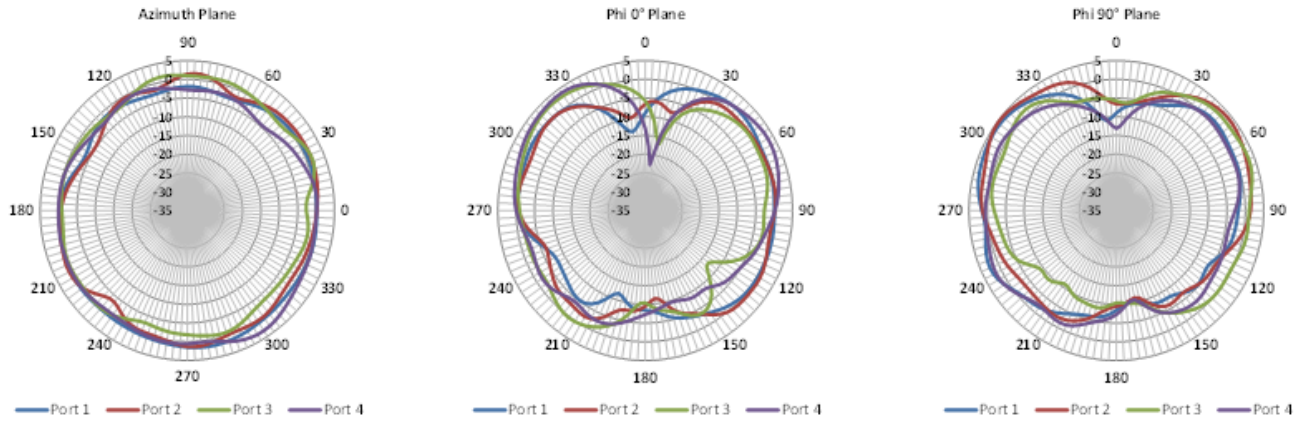


Radiation Pattern at 2500 MHz

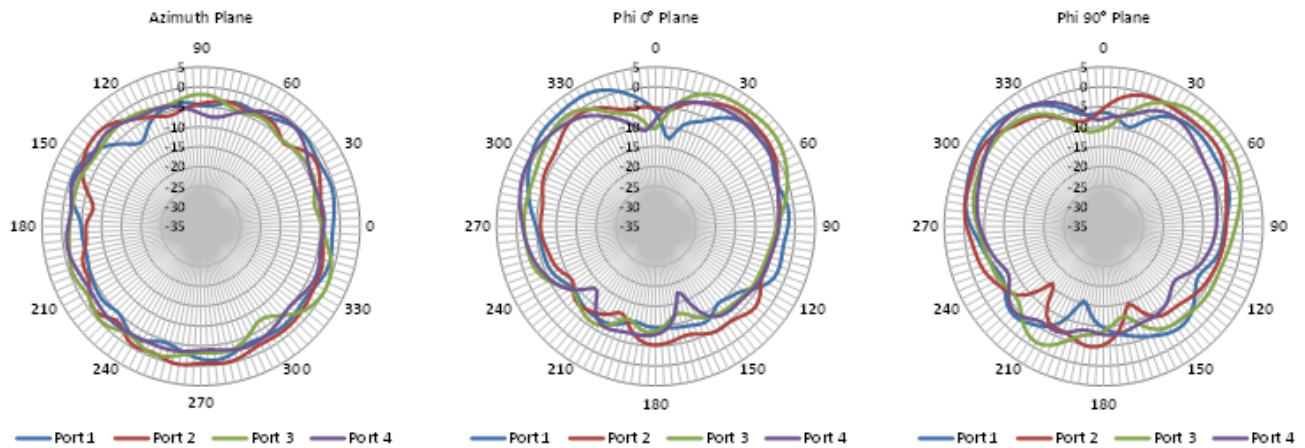


2300 to 2700 MHz/4900 to 5950 MHz 4-port MIMO Ceiling Mount Antenna

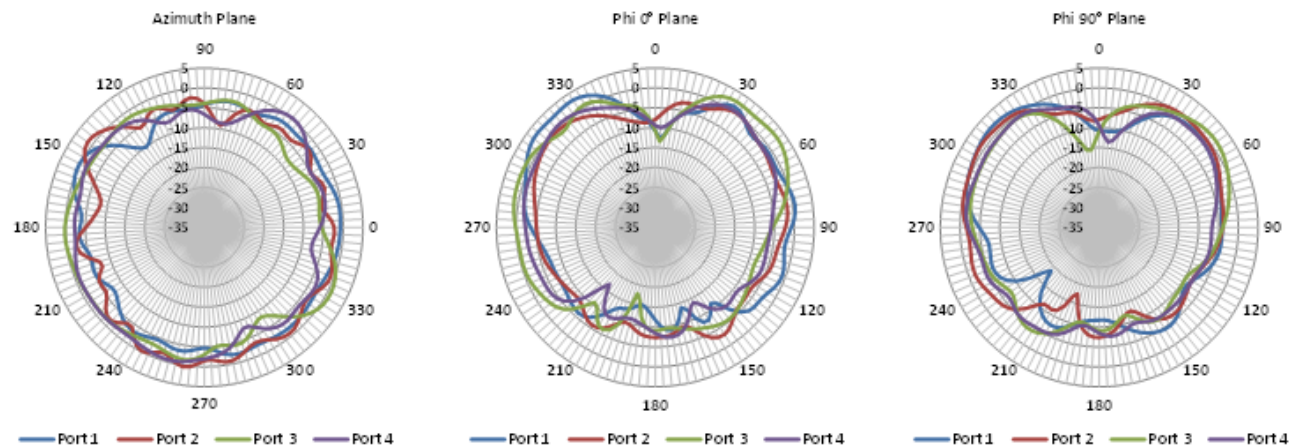
Radiation Pattern at 2700 MHz



Radiation Pattern at 4900 MHz



Radiation Pattern at 5400 MHz

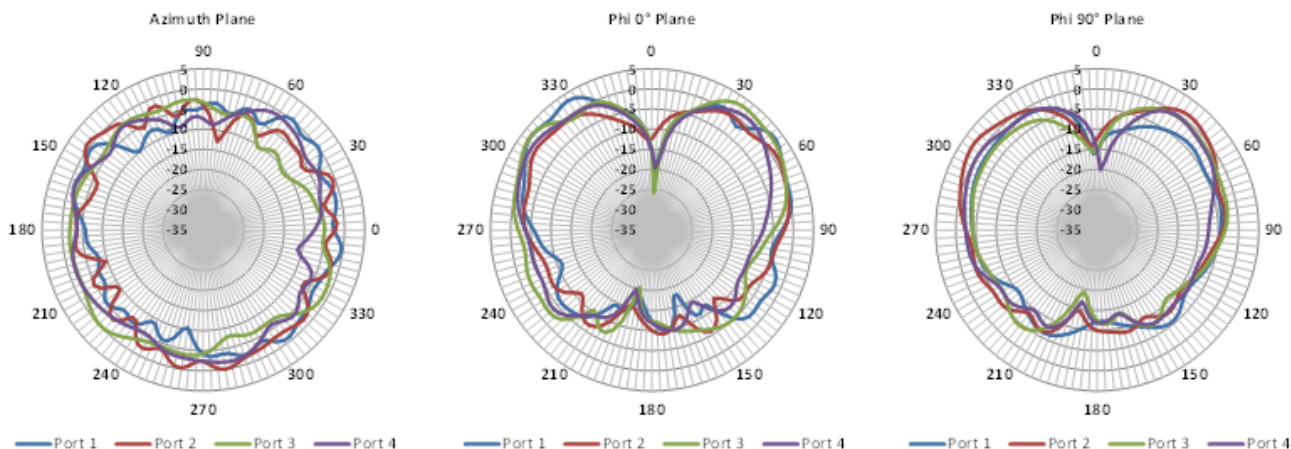


CMQ23496

2300 to 2700 MHz/4900 to 5950 MHz

4-port MIMO Ceiling Mount Antenna

Radiation Pattern at 5900 MHz



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IAS-ANT-DS-CMQ23496_0617

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