

Smart Technology. Delivered.

CMQ23496

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

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.



- 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



Patent Pending

CMQ23496

(TILE FLUSH MOUNT)
Standard



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



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

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-VO, UV STABLE, WHITE | | | |

| MODEL NUMBER | CABLE LENGTH | CONNECTOR |
|-----------------|--------------|--------------------|
| CMQ23496-75RSMM | 4x - 75mm | 4x - RSMA Male |
| CMQ23496-91NF | 4x - 91mm | 4x - Type N Female |
| CMQ23496-91RTNM | 4x - 91mm | 4x - RTNC Male |

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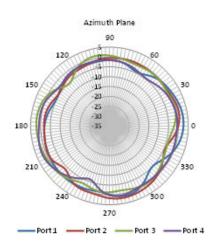


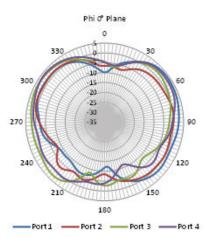


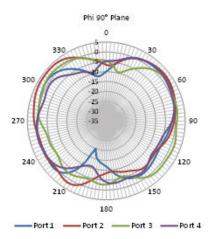
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RADIATION PATTERNS

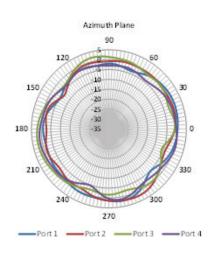
Radiation Pattern at 2300 MHz

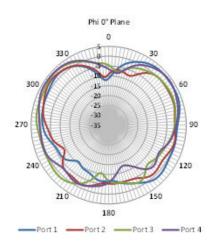


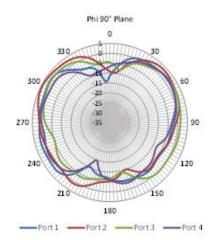




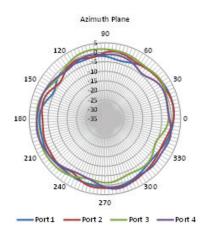
Radiation Pattern at 2400 MHz

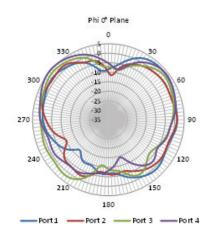


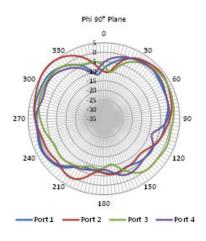




Radiation Pattern at 2500 MHz





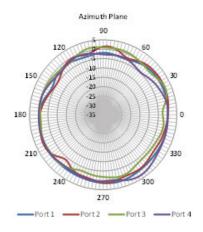


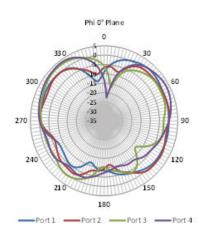


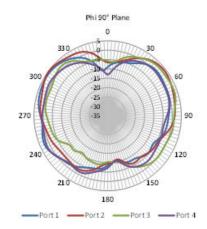


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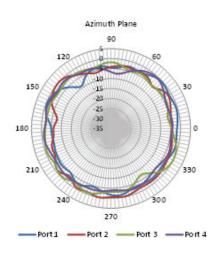
Radiation Pattern at 2700 MHz

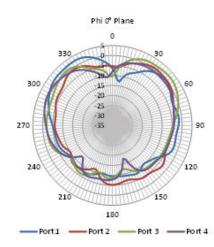


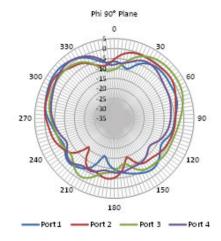




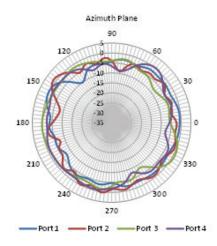
Radiation Pattern at 4900 MHz

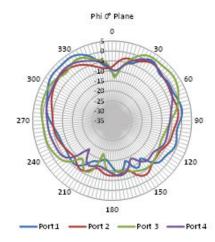


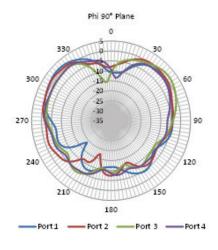




Radiation Pattern at 5400 MHz





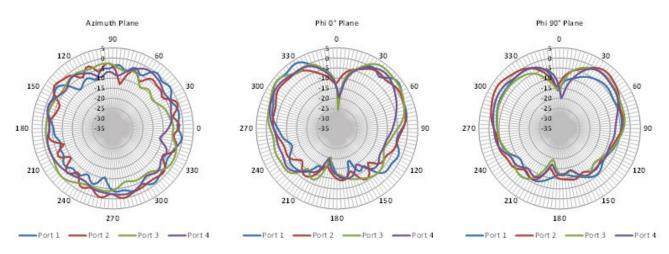




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Radiation Pattern at 5900 MHz



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