

Smart Technology. Delivered.



Patent Pending CMX69273P

CEILING MOUNTS



(TILE FLUSH MOUNT)
Standard



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



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



Part # HKIT-CMX-003 (HARD CEILING TILE FLUSH MOUNT)



Part # HKIT-CMX-004 (ABOVE CEILING MOUNT)

Americas: +1.847 839.6907 IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941 IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127 IAS-AsiaSales@lairdtech.com

CMX69273P

698 to 960 MHz/1710 to 2700 MHz Low PIM 2-port MIMO Ceiling Mount Antenna

LOW PIM 2-PORT MIMO MULTI-BAND CEILING MOUNTED OMNIDIRECTIONAL ANTENNA

The Patent Pending CMX69273P is an indoor broadband Low PIM 2-port MIMO omnidirectional ceiling mount antenna. It is designed to provide pattern coverage that is optimized for indoor requirements at 698-960 MHz and 1710-2700 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 RoHS

- · Low Profile aesthetically neutral housing
- · Mounts directly and easily to ceiling tile
- Performance optimized using Laird proprietary RF optimization tools
- Excellent flame retardancy rating
- Two radiating elements optimized for indoor applications
- Multiple mounting options for a variety of ceiling configurations
- QR Code (Quick Response) label for easy access to antenna performance data
- · RoHS compliant

MARKETS

- Indoor Distributed Antenna Systems
- Wireless Service Providers
- Small cells
- Building Operators offices & meeting rooms
- Hospitality hotels & casinos
- Transportation airport, bus, & train terminals
- Retail stores & indoor pedestrian malls
- Education libraries & museums

BENEFITS

- Complete cellular 3G/4G LTE data communication at each antenna port
- Low PIM performance minimizes interference and improves in building wireless network coverage and capacity.
- Attractive, compact design and form factor ideal for indoor solution applications.

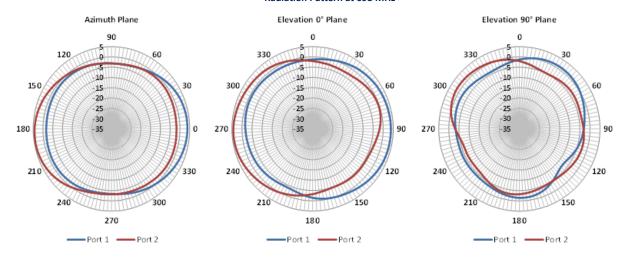
PARAMETER	SPECIFICATION							
Frequency Bands, MHz	698-806	824-894	880-960	1710-1880	1850-1990	1910-2170	2300-2500	2500-2700
Peak Gain, dBi (Typ)	4.3	4.1	4.1	3.3	2.9	2.6	2.8	3.1
Peak Gain, dBi (Max)	4.5	4.2	4.2	3.5	3.3	2.9	3.3	3.3
VSWR (Typ)	<1.5:1	<1.3:1	<1.3:1	<1.3:1	<1.3:1	<1.3:1	<1.2:1	<1.5:1
VSWR (Max)	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1
Isolation, dB (Typ)	< -21	< -19	< -17	< -22	< -23	< -25	< -29	< -30
Isolation, dB (Max)	< -16	< -16	< -16	< -16	< -16	< -16	< -16	< -16
PIM, 3rd Order, 2 x 20W (Typ)	<-154 dBc			<-153 dBc				
PIM, 3rd Order, 2 x 20W (Max)	<-150 dBc			<-150 dBc				
Nominal Impedance	-50 Ω							
Max Power (ambient temp of 25°C)	50 Watts							
Polarization	Linear H/V for each radiator							
Radome	PC / ABS, UL94 V-O (White)							
Mounting	Ceiling mount (drywall or tile flush mount)							
Dimensions (diameter x height)	250 mm x 49 mm (9.84" x 1.9")							
Weight	Approximately 0.60 kg (1.32 lbs.)							
Storage Temperature (°C)	-40° C to +85° C							
Operational Temperature (°C)	-30° C to +70° C							
Flammability Rating (Radome)	UL 94V0 Materials							
Material Substance Compliance	RoHS Compliant							
Connectors	CMX69273P-30NF (Type N female) CMX69273P-30D41F (4.1-9.5 Mini DIN Female)							



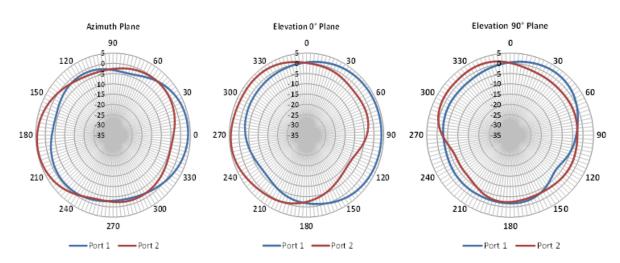
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RADIATION PATTERNS

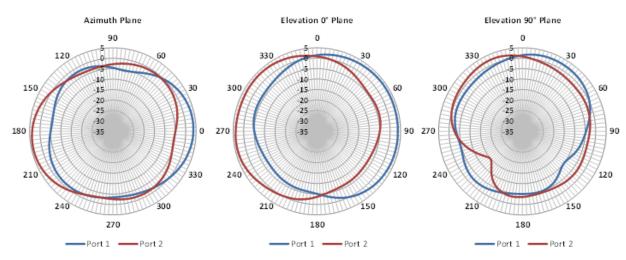
Radiation Pattern at 698 MHz



Radiation Pattern at 746 MHz



Radiation Pattern at 824 MHz

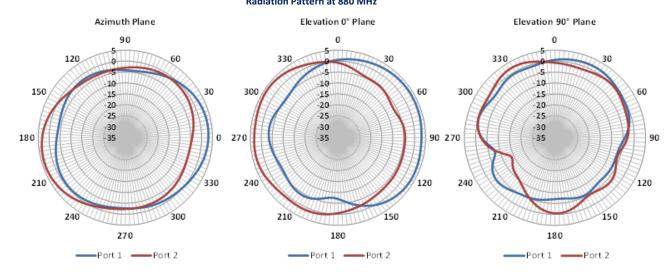




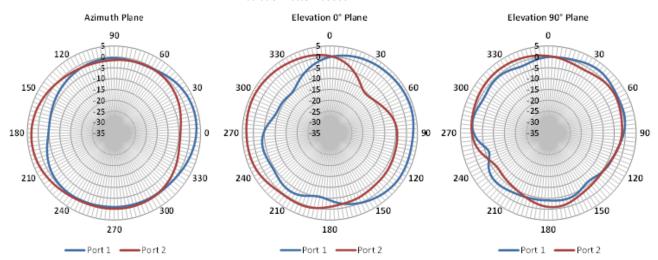
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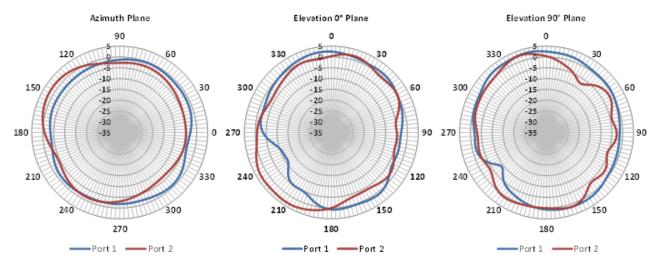




Radiation Pattern at 960 MHz



Radiation Pattern at 1680 MHz

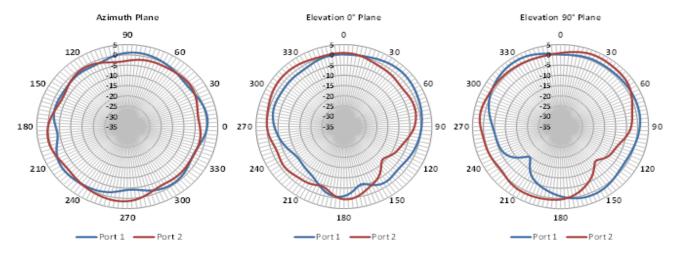




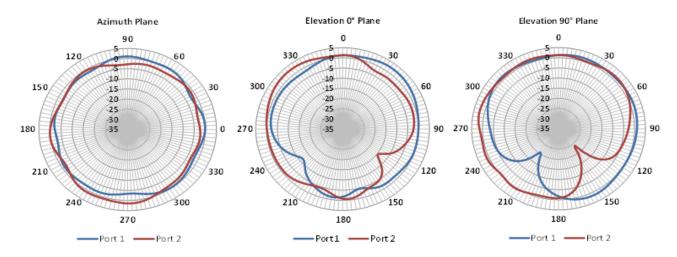
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RADIATION PATTERNS

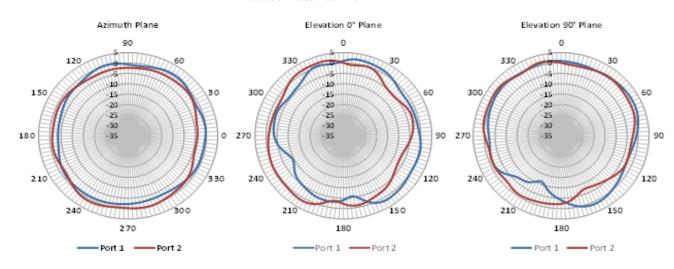
Radiation Pattern at 1880 MHz



Radiation Pattern at 1950 MHz



Radiation Pattern at 2170 MHz

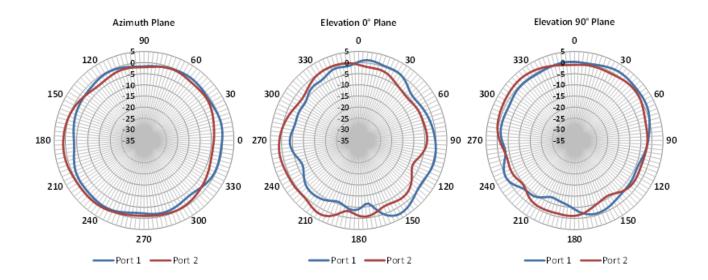




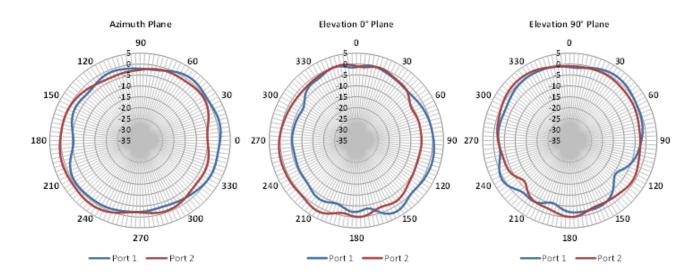
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RADIATION PATTERNS

Radiation Pattern at 2305 MHz



Radiation Pattern at 2412 MHz

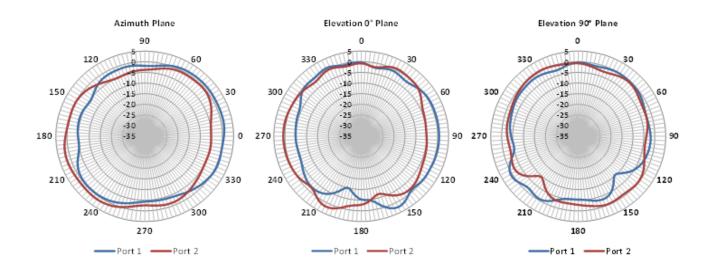




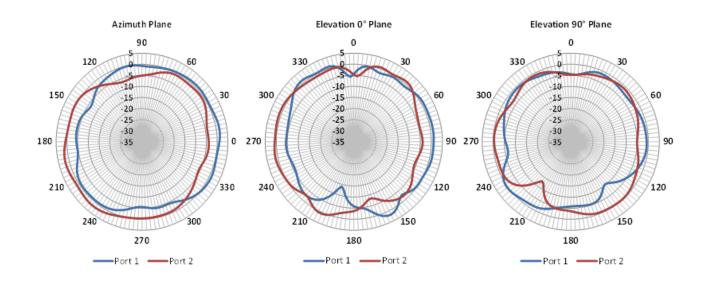
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RADIATION PATTERNS

Radiation Pattern at 2600 MHz



Radiation Pattern at 2700 MHz



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