



Patent Pending
CMQ69273P

The Patent Pending CMQ69273P is an indoor broadband Low PIM 4-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 antennas elements are designed to radiate a pattern that has been specifically shaped to provide optimal radiation within a coverage zone.

FEATURES AND BENEFITS

- 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
- Complete cellular 3G/4G LTE data communication at every 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.

ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	698-806	824-894	880-960	1710-1880	1850-1990	1910-2170	2300-2500	2500-2700
Peak Gain, dBi (Typ)	3.6	3.8	3.7	5.4	5.0	4.7	4.5	4.5
Peak Gain, dBi (Max)	5.4	4.7	4.2	6.0	5.4	5.4	6.0	5.1
VSWR – Avg	<1.8:1	<1.6:1	<1.7:1	<1.6:1	<1.6:1	<1.8:1	<1.4:1	<1.7:1
VSWR – Max	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1
Isolation, dB (Max)	< -15	< -15	< -15	< -17	< -17	< -17	< -17	< -17
PIM, 3rd Order, 2 x 20W – dBc (Typ)	<-154			<-164				
PIM, 3rd Order, 2 x 20W – dBc (Max)	<-153							
Nominal Impedance (Ohms)	-50							
Max Power - Ambient 25°C (W)	50							
Polarization	Linear, Omni-directional							

MECHANICAL SPECIFICATIONS

Dimensions – diameter x height – mm (inches)	330 x 55.5 (12.9 x 2.2)
Weight	Approximately 1.18 kg (2.6 lbs.)
Radome Material	PC / ABS, UV stable
Mounting	Ceiling mount (drywall or tile flush mount)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature – °C (°F)	-30° C to +70° C (-22° F to 158° F)
Storage Temperature – °C (°F)	- 40° C to +85° C (-40° F to 185° F)
Flammability Rating (Radome)	UL 94V0 Materials
Standard for Safety: Information Technology Equipment	UL/CSA/EN/IEC/CB-Scheme 60950-1 Listed
Material Substance Compliance	RoHS Compliant

CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
CMQ69273P-30NF	30 cm (12 in.) cable	Four Type N-Female
CMQ69273P-30D41F	30 cm, (12 in.) cable	Four Type 4.1-9.5 Female
CMQ69273P-30D43F	30 cm, (12 in.) cable	Four Type 4.3-10 Female

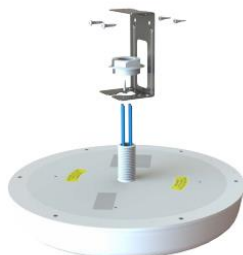
MOUNTING OPTIONS



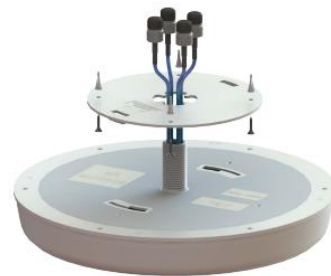
Standard
(TILE FLUSH MOUNT)



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



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



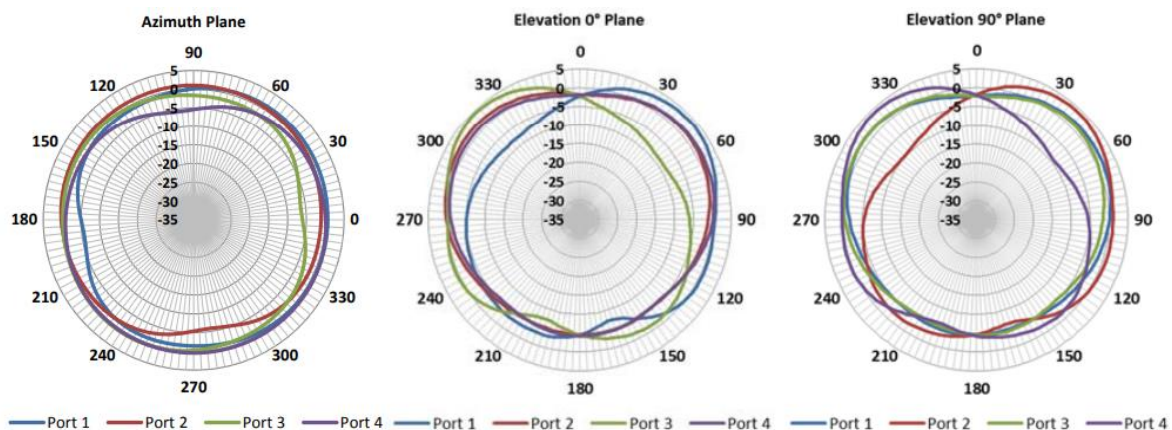
Part # HKIT-CMX-003
(HARD CEILING TILE FLUSH MOUNT)



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

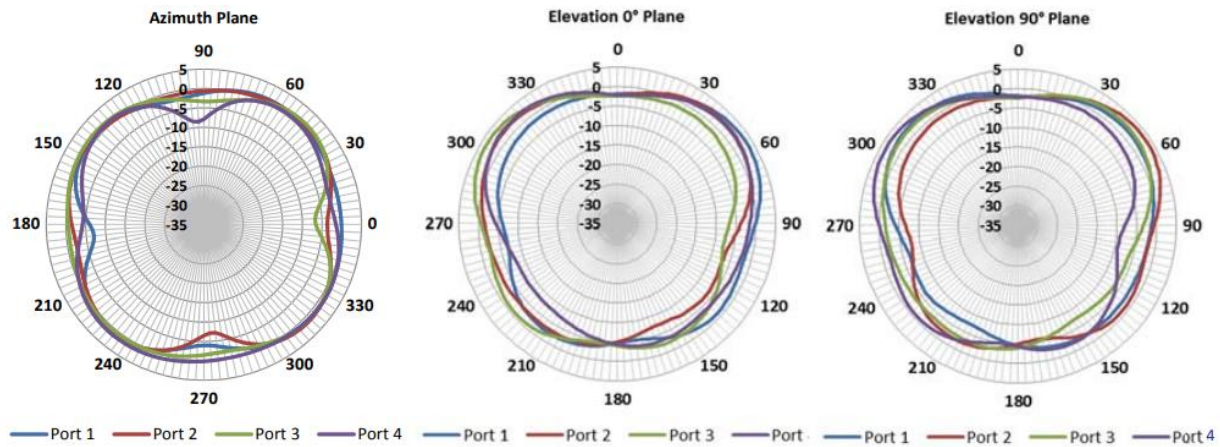
RADIATION PATTERNS

698 MHz

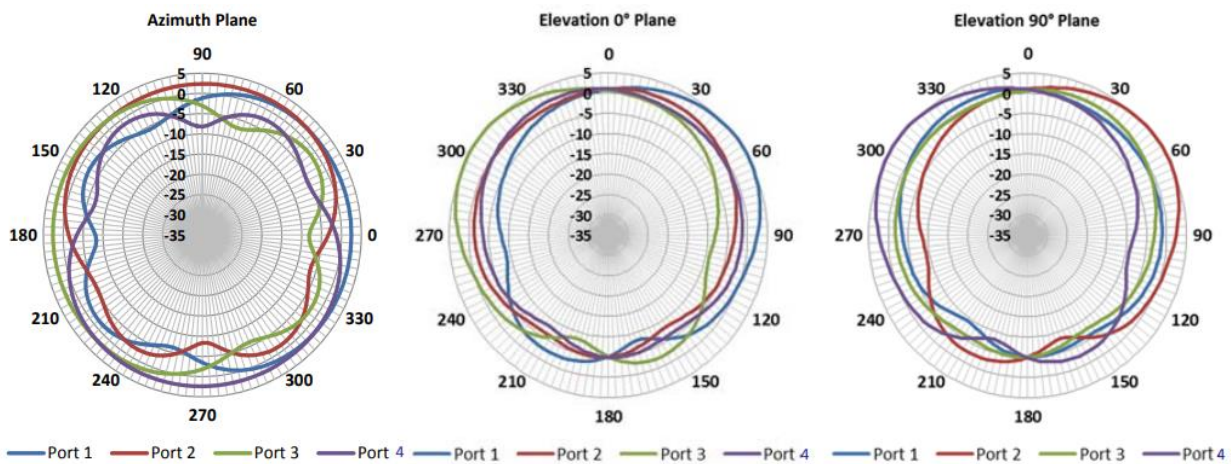


RADIATION PATTERNS

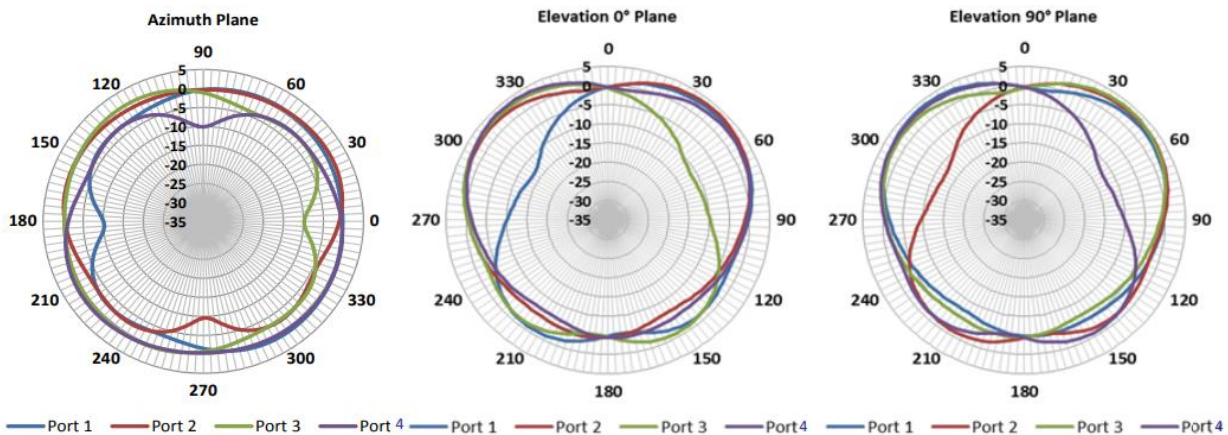
746 MHz



824 MHz

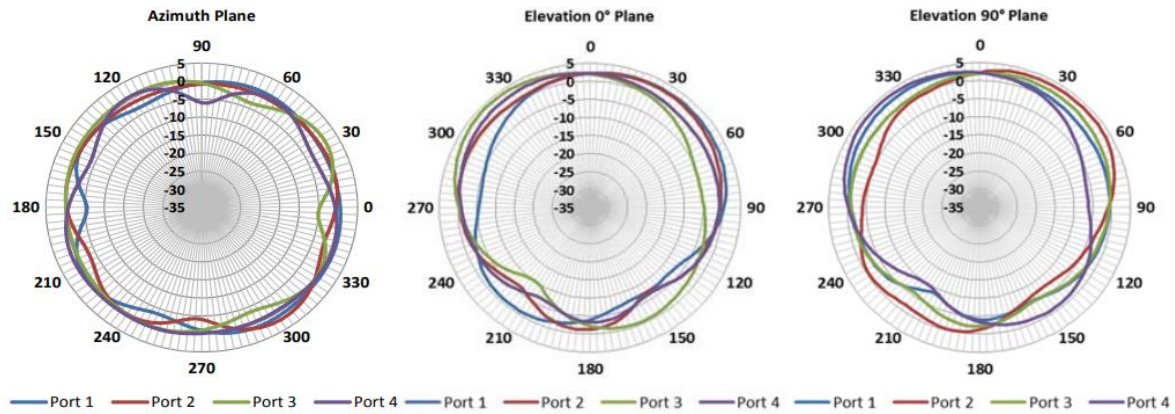


880 MHz

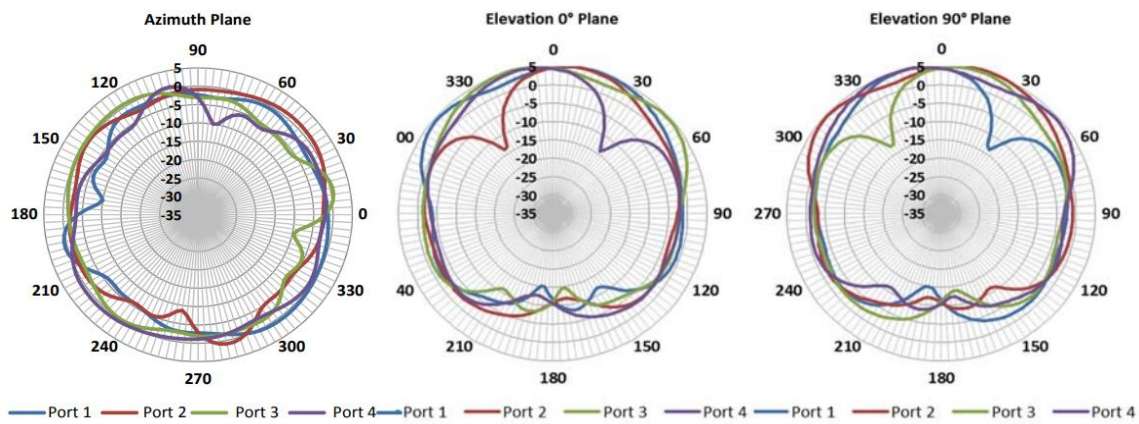


RADIATION PATTERNS

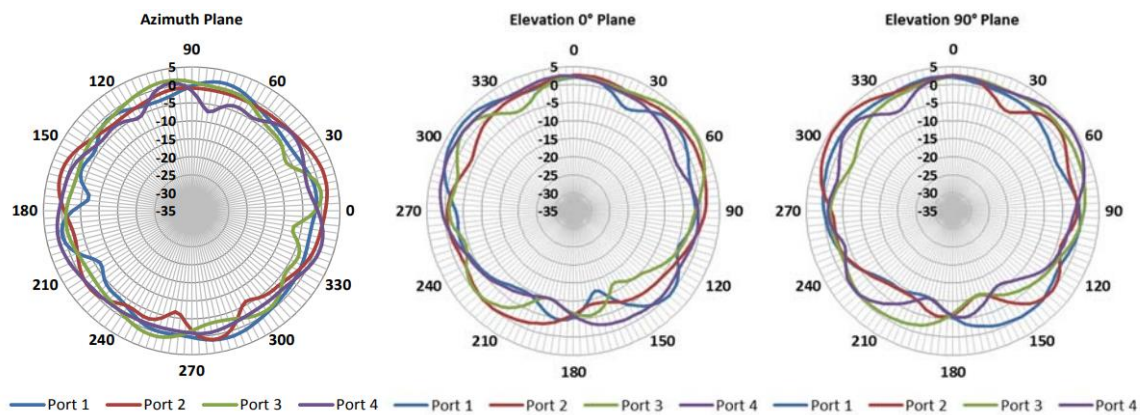
960 MHz



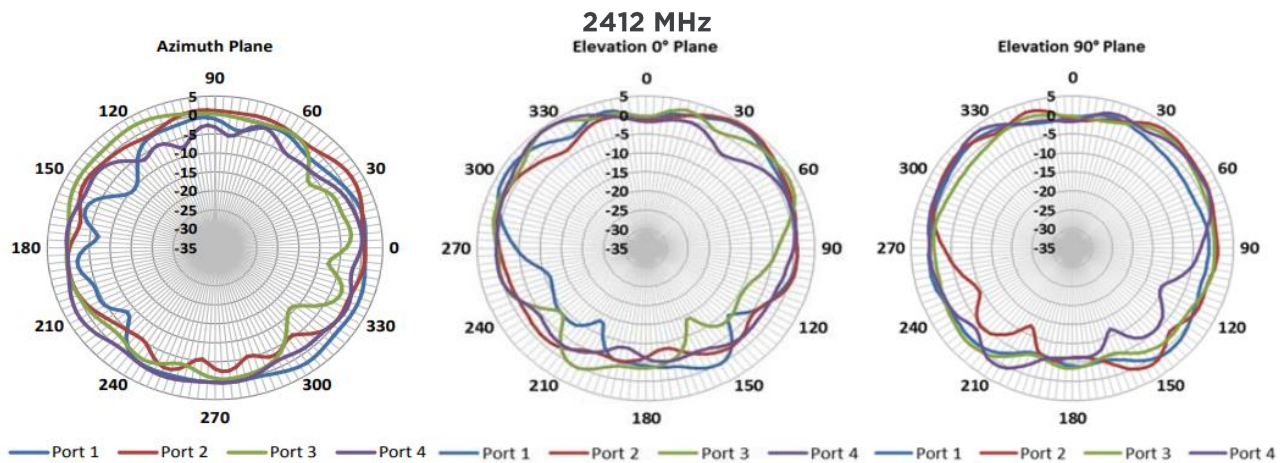
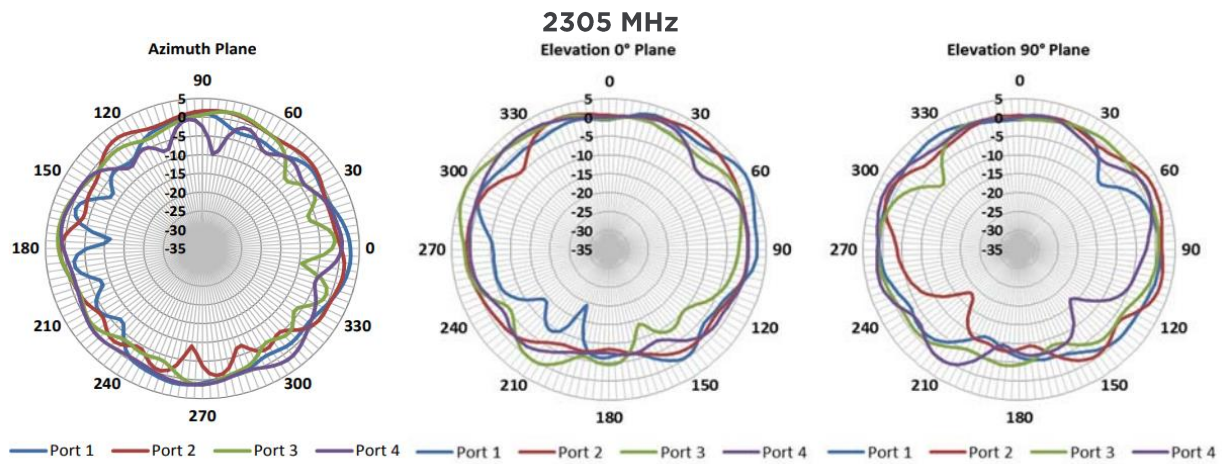
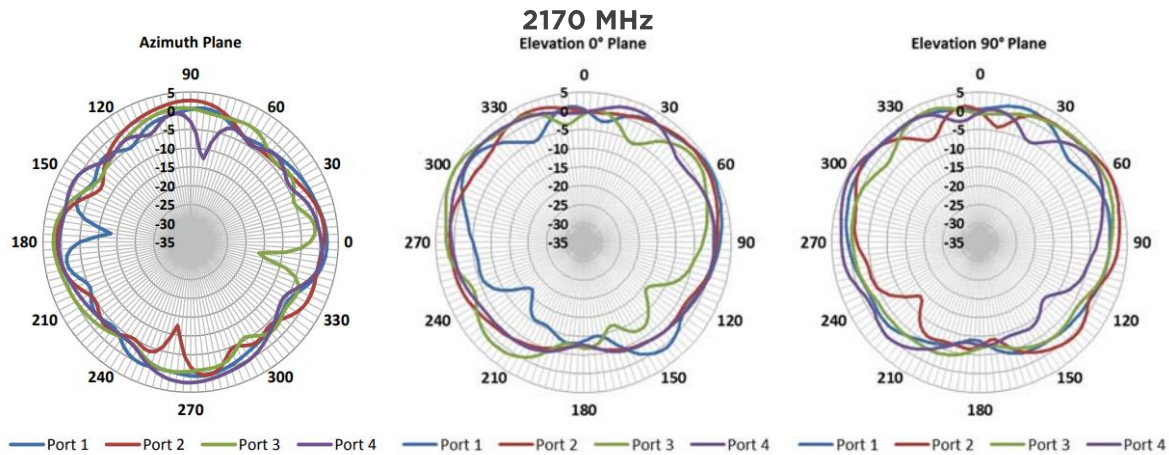
1710 MHz



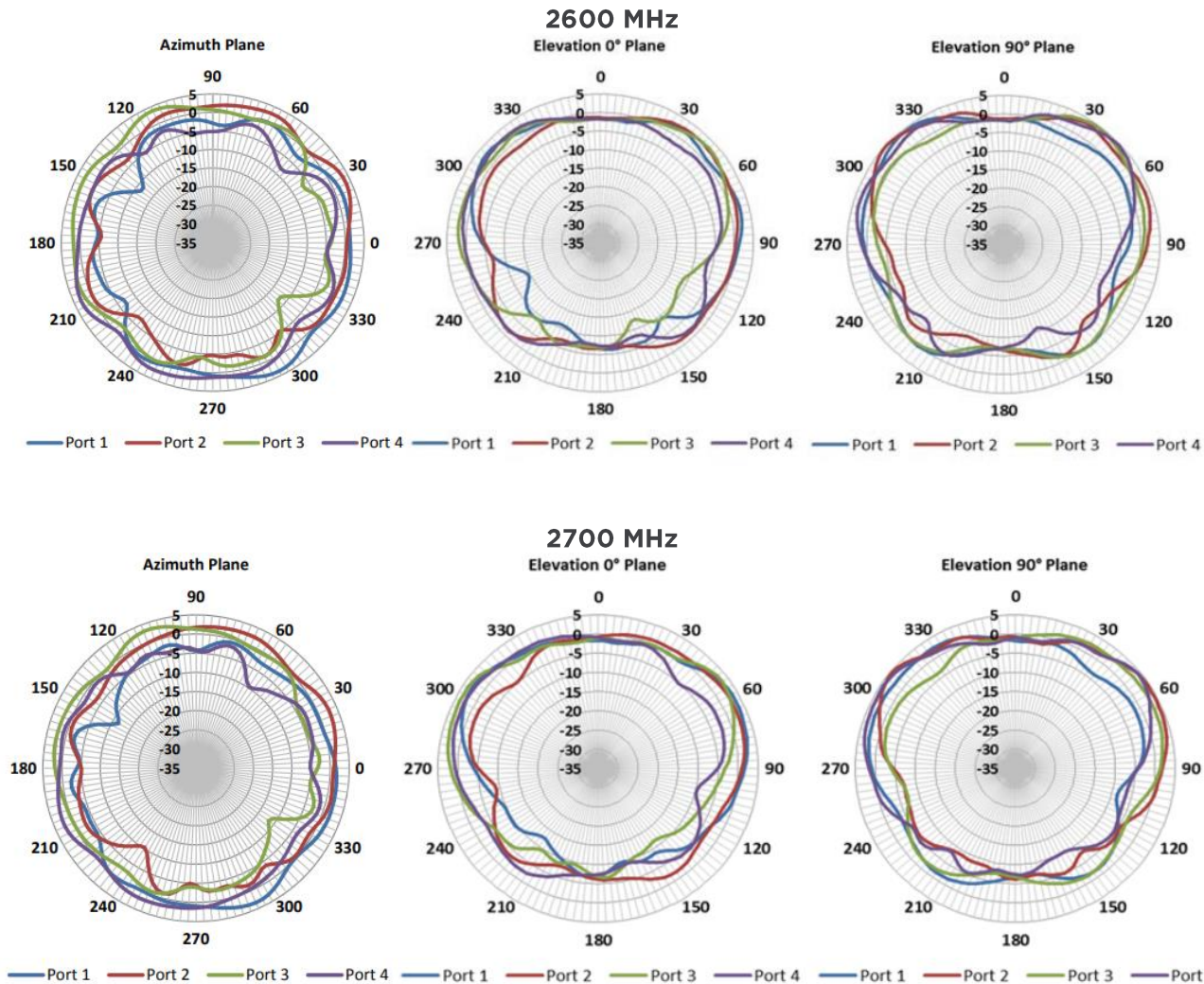
1950 MHz



RADIATION PATTERNS



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Americas: +1.847.839.6925
 IAS-AmericasSales@lairdtech.com
Europe: +44.1628.858941
 IAS-EUSales@lairdtech.com
Asia: IAS-AsiaSales@lairdtech.com
Middle East and Africa:
 +44.1628.858941
 IAS-MEASales@lairdtech.com
<https://connectivity.lairdtech.com/>



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