LPS69273NT

Omni SISO 3G-4G Disk/Puck
698-960 MHz/1710-2700 MHz

The patent-pending LPS69273NT antenna is a multiband low profile omnidirectional disk/puck antenna operating over the 698-960 MHz and 1710-2700 MHz frequency bands. Designed to be a surface mount antenna that performs well on metallic and non-metallic* surfaces, the antenna is ideal for use in Machine-to-Machine (M2M) applications. The housing incorporates a low profile, rugged design that conforms to IP67 standards making the antenna suitable for both indoor and outdoor applications.

FEATURES AND BENEFITS

- Low profile, aesthetically-neutral housing
- Surface mount with stud and locking nut
- Designed for both indoors and outdoors
- IP67-rated for harsh environments
- Both 3G/4G LTE and Wi-Fi communications
- Made for both metal and non-metallic* surfaces

* Requires a 300-millimeter diameter ground plane kit (order separately with P/N HKIT-LPx-001)

ELECTRICAL SPECIFICATIONS								
Operating Frequency (MHz)	698-806	824-894	880-960	1710-1880	1850-1990	1910-2170	2300-2500	2500-2700
VSWR – Avg	<2.7:1	<2.9:1	<2.8:1	<2.1:1	<1.7:1	<1.7:1	<2.3:1	<2.3:1
VSWR – Max	<3.0:1	<3.0:1	<3.0:1	<3.0:1	<3.0:1	<3.0:1	<3.0:1	<3.0:1
Peak Gain – Typ. (dBi)								
On metal housing	2.1	0.7	1.7	5.4	4.6	4.5	3.4	3.7
On plastic housing with ground plane kit	2.4	1.1	2.3	5.5	4.4	4.0	3.8	3.8
Peak Gain - Max (dBi)								
On metal housing	2.5	1.1	2.3	5.9	4.8	4.9	3.8	4.0
On plastic housing with ground plane kit	2.9	1.4	3.1	5.9	5.3	4.3	4.4	4.3
Nominal Impedance (Ohms)	50							
Max Power - Ambient 25°C (W)	10							
Polarization	Linear, Vertical							
Azimuth Beamwidth	Omnidirectional							

MECHANICAL SPECIFICATIONS	
Dimensions – diameter x height – mm (inches)	127 x 31 (5 x 1.22)
Weight – kg (lbs.)	Approximately 0.2 (0.44)
Cable Type	RG316
Radome Material and Color	PC, UV stable, UL94-V0- material, black
Cable Type	RG316

ENVIRONMENTAL SPECIFICATIONS	
Operating Environment	Indoor or outdoor
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

CONFIGURATION

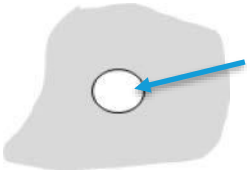
PART NUMBER	CABLE LENGTH	CONNECTOR
LPS69273NT-61SMAM	610 mm (24 in.)	SMA-male
LPS69273NT-61RTNM	610 mm (24 in.)	RTNC-male

MOUNTING

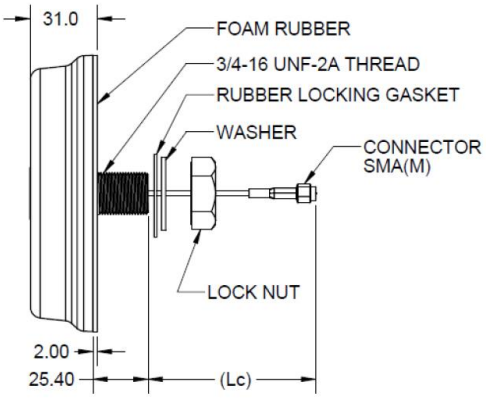
A threaded post on the back of the antenna and a supplied mounting nut is the primary mounting method when access is available to both sides of the mounting surface, such as a ceiling of a truck, meter, and vending machine. Mark the desired mounting location on the tile and cut a ø20 mm (0.8”) hole for threaded post. Feed the cables through the hole and secure the antenna with the mounting nut.

The included rubber locking gasket should only be used with the mounting nut when mounting to a hard surface.

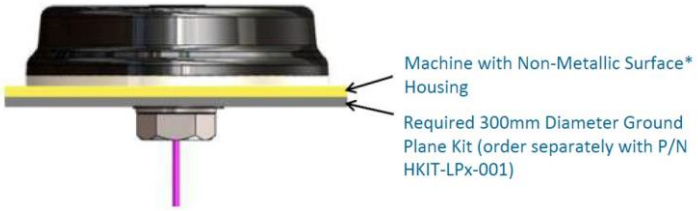
Note: You should mount the antenna on the desired location before you connect the cable. This ensures that you do not twist or damage the cable during the mounting of the antenna.



Hole diameter – 20 mm (0.8 in.)
Maximum material thickness – 15 mm

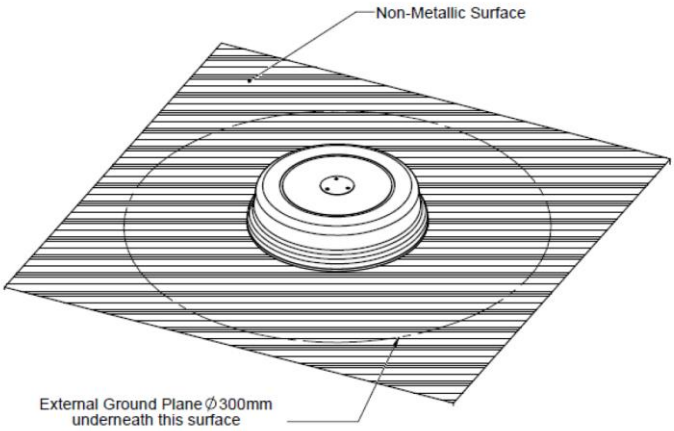


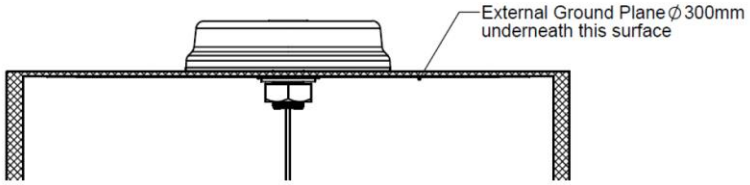
Housing Configurations



Optional Ground Plane Kit

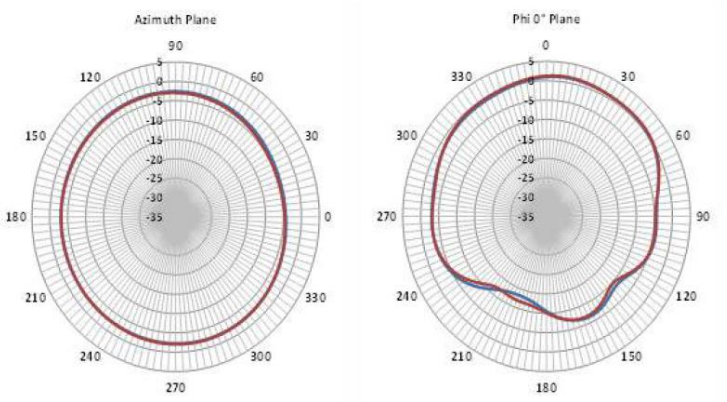
For mounting on a non-metallic surface – Hardware Kit Part Number: HKIT-LPx-001



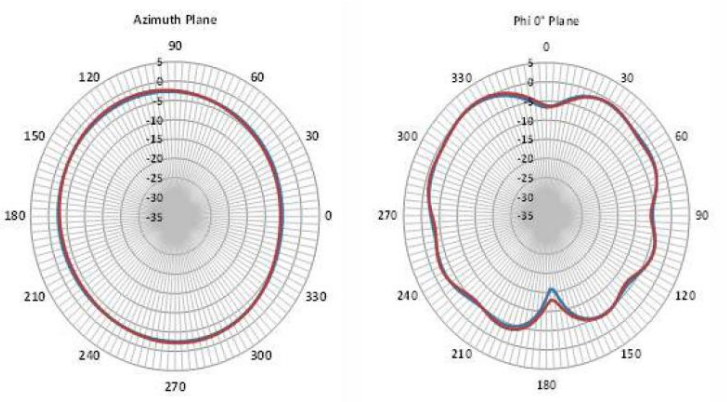


RADIATION PATTERNS

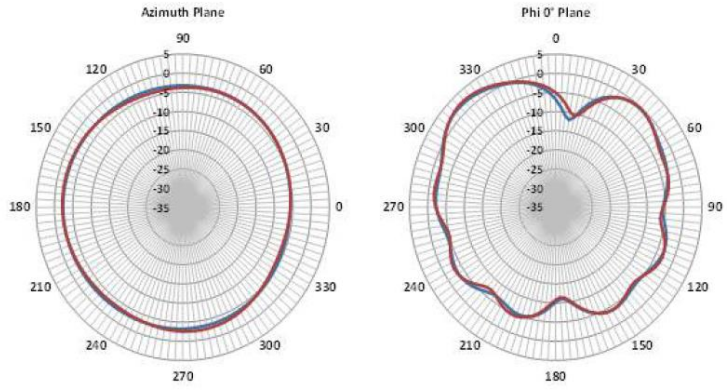
698 MHz



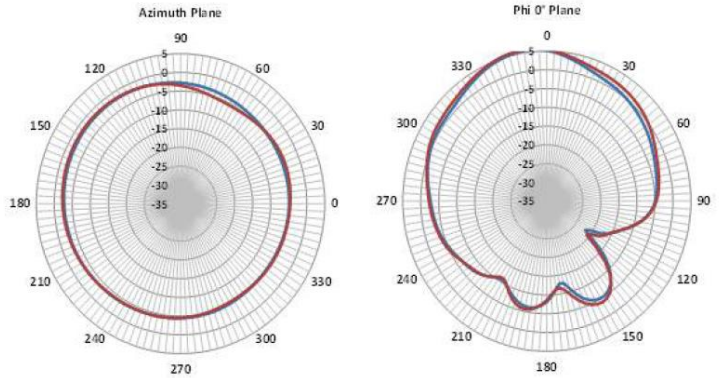
880 MHz



960 MHz



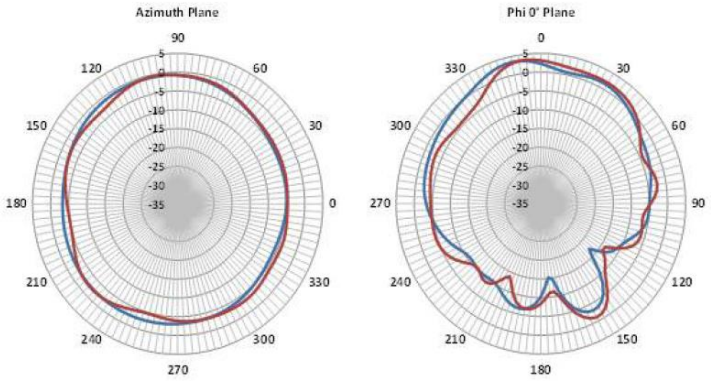
1710 MHz



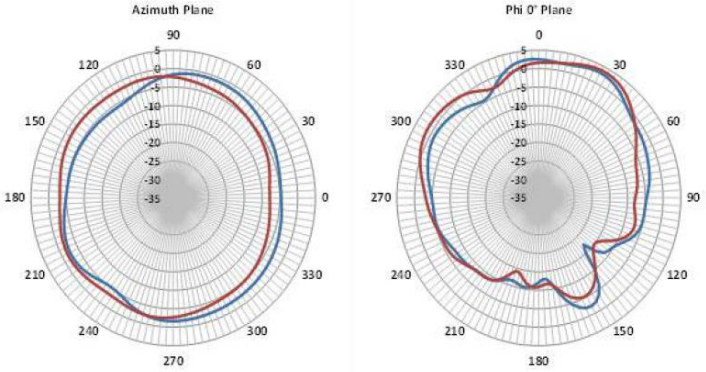
On metal housing
On plastic housing with ground plane kit

RADIATION PATTERNS

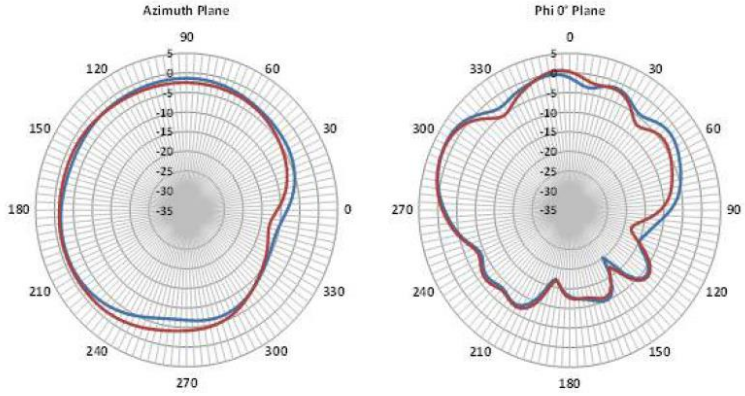
1950 MHz

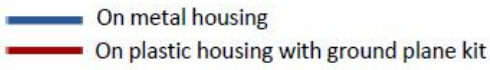


2170 MHz



2700 MHz





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