



**LOW PROFILE SURFACE MOUNT 880-960/1710-2170 MHZ DISK ANTENNA** Laird's LPS88213NT antenna is a multiband low profile disk antenna operating over the 880-960 MHz and 1710-2170 MHz cellular bands. Designed to be a surface mount antenna that performs well on 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 solutions.

### FEATURES

- Low Profile aesthetically neutral housing
- Surface mount with stud & locking nut
- Equitable for both Indoor & Outdoor applications
- IP67 rated

### BENEFITS

- Cellular and 2G/3G data communications in a single solution
- Applicable for both metal and non-metal housings

### MARKETS

- M2M
- Cellular
- Electric, gas & water utilities
- Remote monitoring, kiosks & ATM
- Production monitoring & control
- Transportation, shipping hubs & ports

### SPECIFICATIONS

PARAMETER	SPECIFICATION			
Frequency Bands, MHz	880-960	1710-1880	1850-1990	1910-2170
VSWR (Typ)				
On Plastic Housing	<2.3:1	<2.5:1	<1.8:1	<2.3:1
On Metal Housing	<2.4:1	<1.4:1	<1.5:1	<2.5:1
VSWR (Max)	3.0:1	3.0:1	3.0:1	3.0:1
Peak Gain, dBi (Typ)				
On Plastic Housing	2.3	1.7	2.0	2.5
On Metal Housing	2.2	4.4	3.7	3.7
Peak Gain, dBi (Max)				
On Plastic Housing	3.4	2.1	2.5	3.0
On Metal Housing	2.5	5.0	3.9	3.9
Nominal Impedance	50 Ω			
Max Power	10 Watts			
Azimuth Beam Width (deg)	Omnidirectional			
Polarization	Linear, Vertical			
Power, Max	10 Watts			
Dimensions (diameter x height)	90 mm X 26 mm (3.5" X 1.0")			
Weight	108.5 g (0.24 lbs)			
Wind Survival	200 km/h (119.9 mph)			
Storage Temperature	-40° C to +85° C			
Operational Temperature	-30° C to +70° C			
Radome	PC, Black			
IP Rating	IP67			
Material Substance Compliance	RoHS Compliant			

### CONNECTORS

MODEL NUMBER	CABLE LENGTH	CONNECTOR
LPS88213NT-61SMAM	61 cm (24 in)	SMA- male
LPS88213NT-61RTNM	61 cm (24 in)	RTNC- male

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IAS-EUSales@lairdtech.com

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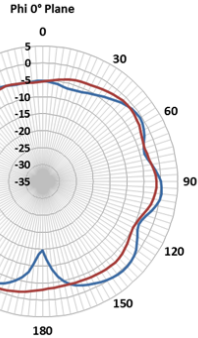
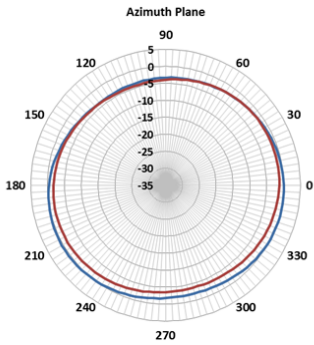
**AZIMUTH PATTERNS**

**ELEVATION PATTERNS**

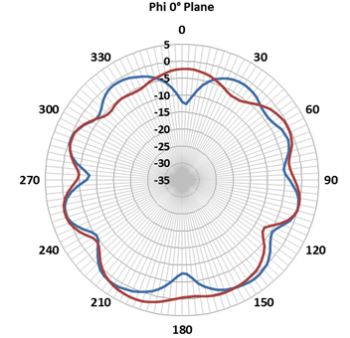
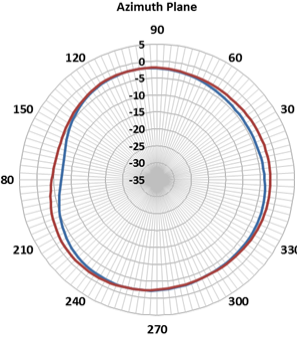
**AZIMUTH PATTERNS**

**ELEVATION PATTERNS**

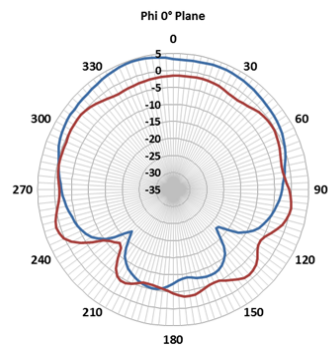
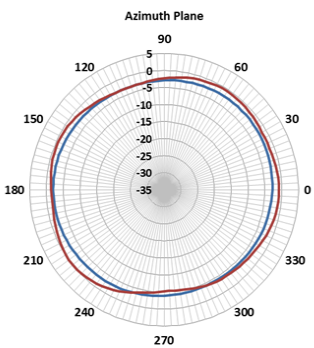
**880 MHz Radiation Pattern**



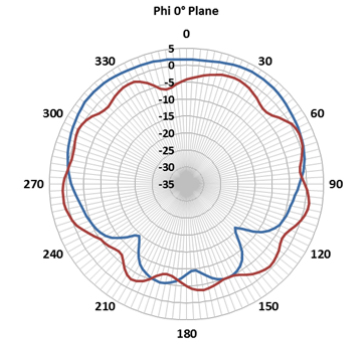
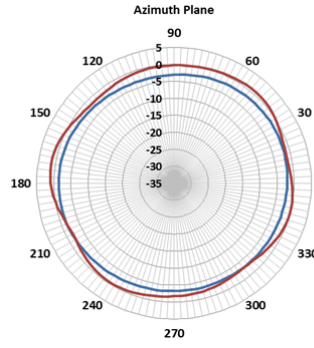
**960 MHz Radiation Pattern**



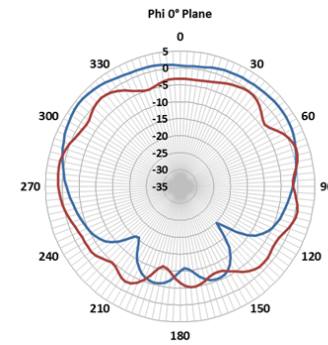
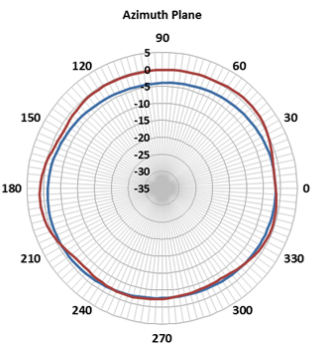
**1710 MHz Radiation Pattern**



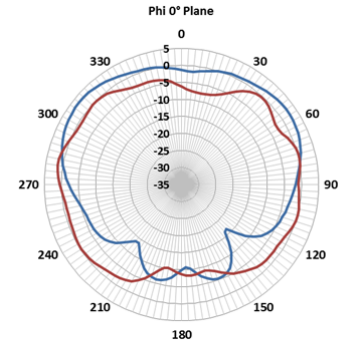
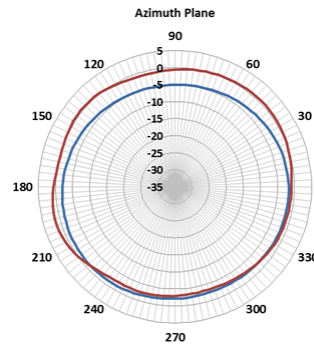
**1850 MHz Radiation Pattern**



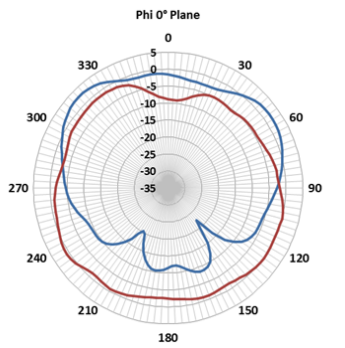
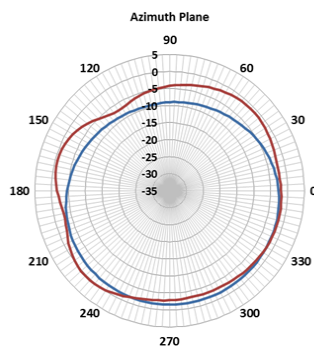
**1910 MHz Radiation Pattern**



**1990 MHz Radiation Pattern**



**2170 MHz Radiation Pattern**



— Antenna on Metal Housing  
— Antenna on Plastic Housing

ANT-DS-LPS88213NT\_0515

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