



## LPS88213NT

### Low Profile Disk Antenna 880-960 MHz/1710-2170 MHz

Laird Connectivity'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 AND BENEFITS

- Low profile aesthetically-neutral housing
- Surface mount with stud and locking nut
- Equitable for both outdoor and indoor applications
- Cellular and 2G/3G data communications in a single solution
- Applicable for both metal and non-metal housings

#### APPLICATIONS

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

#### ELECTRICAL SPECIFICATIONS

Model Name	LPS88213NT			
Operating Frequency (MHz)	880-960	1710-1880	1850-1990	1910-2170
VSWR - Avg				
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 - Typ (dBi)				
On plastic housing	2.3	1.7	2.0	2.5
On metal housing	2.2	4.4	3.7	3.7
Peak Gain - Max (dBi)				
On plastic housing	3.4	2.1	2.5	3.0
On metal housing	2.5	5.0	3.9	3.9
Nominal Impedance (Ohms)	50			
Max Power - Ambient 25°C (W)	10			
Polarization	Linear, vertical			
Horizontal Plane 3 dB Beamwidth	Omnidirectional			

## MECHANICAL SPECIFICATIONS

Dimensions - Diameter x Height - mm (inches)	90.0 x 26.0 (3.5 x 1.0)
Weight - g (lbs.)	108.5 (0.24)
Radome Material	PC, Black

## ENVIRONMENTAL SPECIFICATIONS

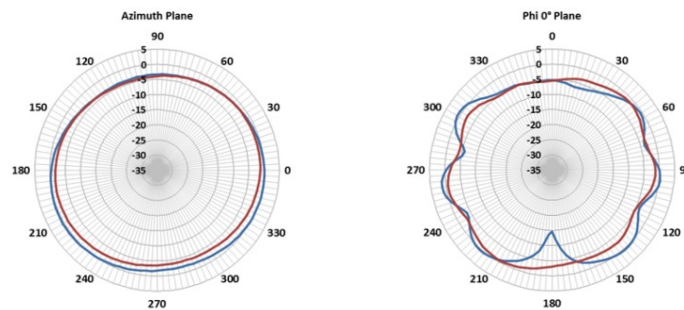
Operating Environment (Indoor or Outdoor)	Indoor and outdoor
Operating Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Wind Survival - km/hr (mph)	200 (119.9)
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

## CONFIGURATION

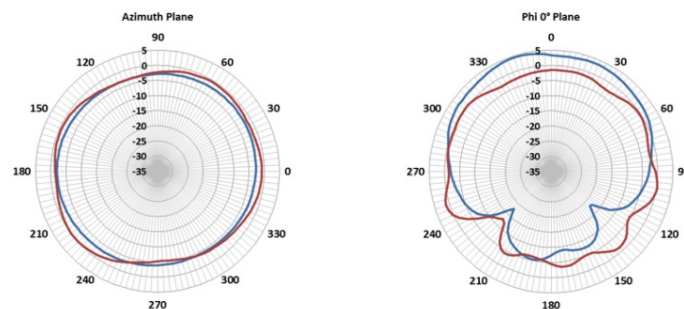
PART NUMBER	CABLE LENGTH	CONNECTOR
LPS88213NT-6ISMAM	61 cm (24 in.)	SMA-male
LPS88213NT-6IRTNM	61 cm (24 in.)	RTNC-male

## RADITION PATTERNS

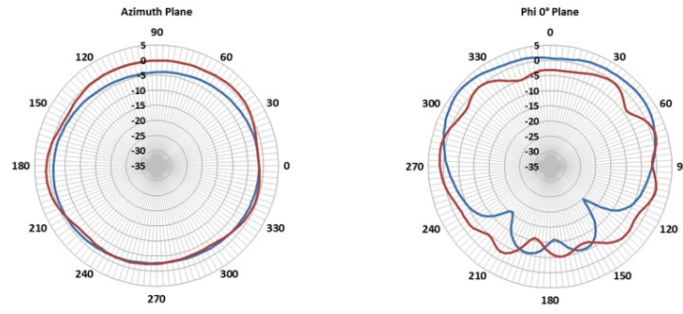
### 880 MHz



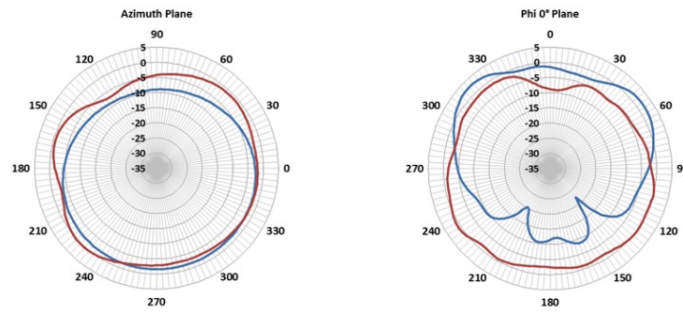
### 1710 MHz



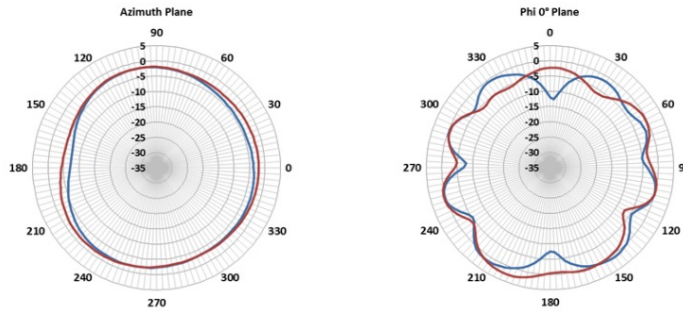
## 1910 MHz



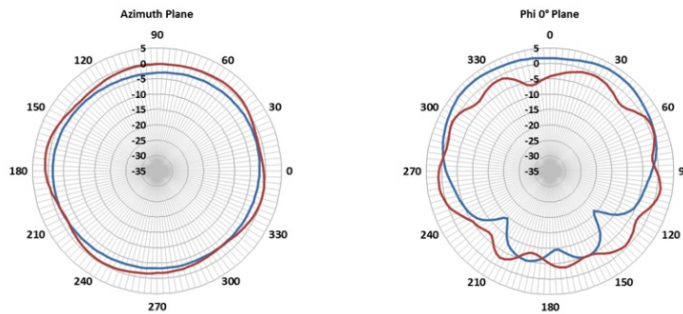
## 2170 MHz



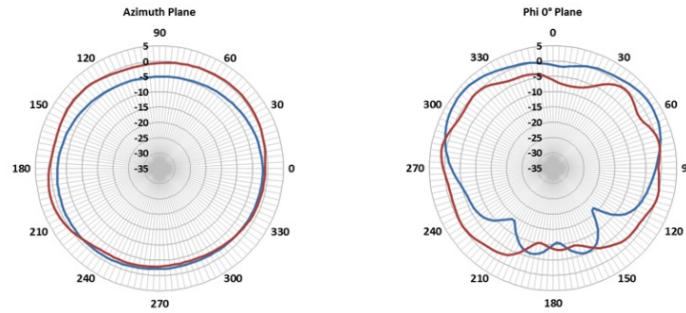
## 960 MHz



## 1850 MHz



# 1990 MHz



— Antenna on Metal Housing  
— Antenna on Plastic Housing

## TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999

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