



LPS88213NT

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

TE 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

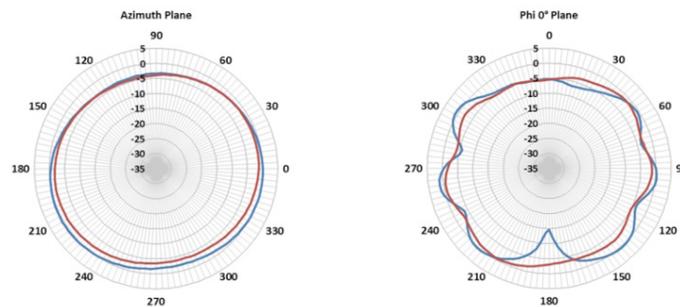
Operating Environment (Indoor or Outdoor)	Indoor and outdoor
Operating Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Wind Survival - km/hr (mph)	200 (119.9)
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

CONFIGURATION

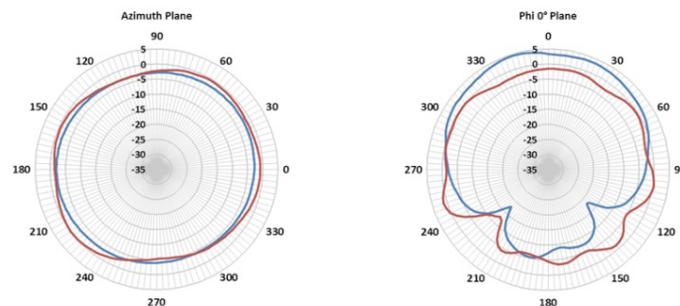
PART NUMBER	CABLE LENGTH	CONNECTOR
LPS88213NT-61SMAM	61 cm (24 in.)	SMA-male
LPS88213NT-61RTNM	61 cm (24 in.)	RTNC-male

RADITION PATTERNS

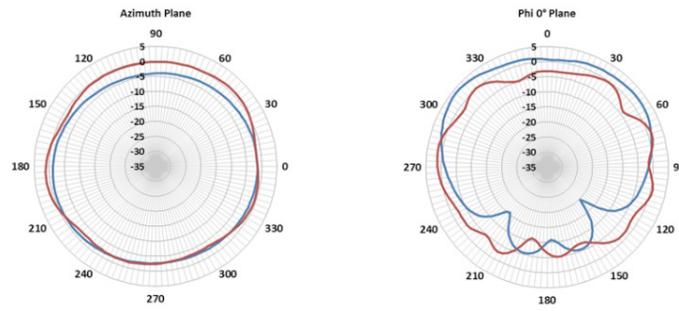
880 MHz



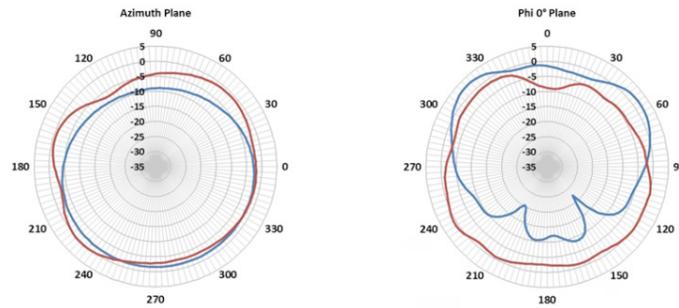
1710 MHz



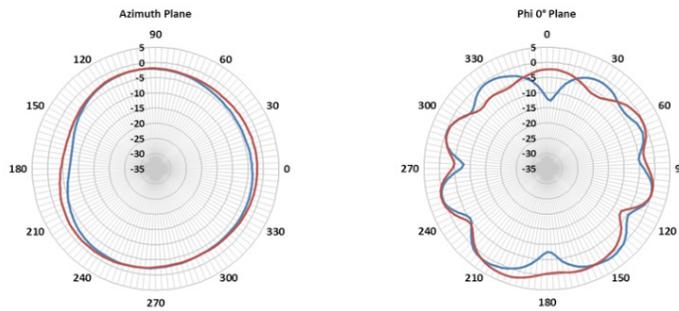
1910 MHz



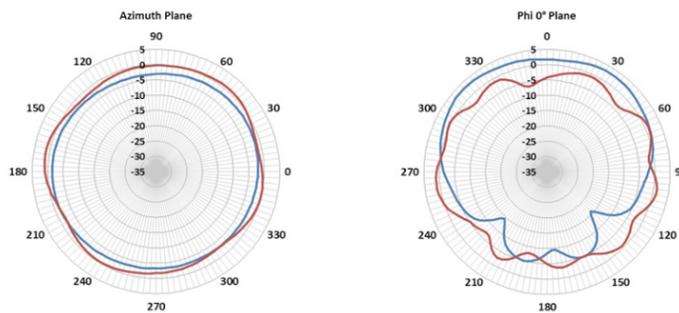
2170 MHz



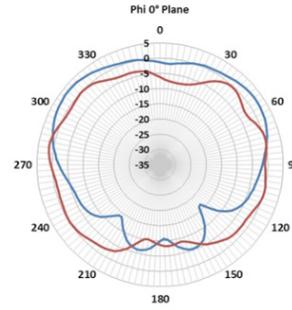
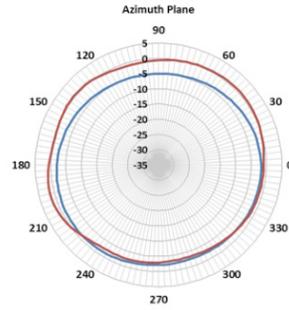
960 MHz



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
China:	+86 (0) 400-820-6015

te.com

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, complete, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event will TE be liable for any direct, indirect, incidental, special or consequential damages arising from or related to recipient's use of the information. It is the sole responsibility of recipient of this information to verify the results of this information using their engineering and product environment. Recipient assumes any and all risks associated with the use of the information. Antenna performance may vary. TE is a component manufacturer, and customer and/or end-user is responsible for all end-use compliance and regulatory requirements.

©2025 TE Connectivity. All Rights Reserved.

05/25 Original