



### LOW PROFILE SURFACE MOUNT 824-894/1710-2170 MHZ DISK ANTENNA

Laird's LPS82403NT antenna is a multiband low profile disk antenna operating over the 824-894 MHz and 1710-2170 MHz cellular bands. Designed to be a surface mount antenna that performs well on metallic and nonmetallic 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
- Utilities, Remote Monitoring, Kiosks, ATMs
- Warehouse, Offices and Meeting rooms
- Hotels, Museums, Libraries, Retail Malls
- Airport, Bus Terminals and train Stations
- Other in-building areas



PARAMETER	SPECIFICATION	
Model Number	LPS82403NT-61SMAM	
Frequency	824-894 MHz	1710-2170 MHz
Gain (on Metal Housing)	2.39 (Max)	5.48 (Max)
Gain (on Plastic Housing)	1.86 (Max)	3.42 (Max)
Average Efficiency (on Metal Housing)	62%	68%
Average Efficiency (on Plastic Housing)	63%	64%
VSWR	< 3:1	
Max Input Power	10W	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Nominal Impedance	50 Ω	
Antenna Dimension	26 (h) x 90 (dia.) mm (excludes gasket height)	
Weight	108.5 g (with SMA connector)	
Connector	SMA male or RPTNC male	
Coaxial Cable	RG316 (609.6 mm Length)	
Wind Survival	200 km/h	
Operational Temperature	-30°C to +70°C	
Storage Temperature	-40°C to +85°C	
Water/Foreign Body Ingress	IP67	
RoHS Compliance	Yes	

#### CONNECTORS

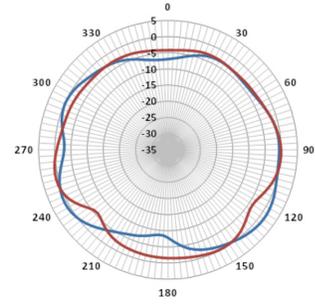
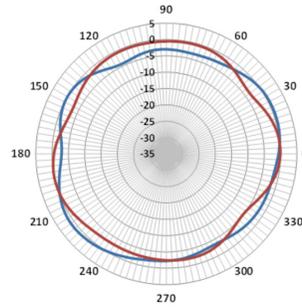
MODEL NUMBER	CABLE LENGTH	CONNECTOR
LPS82403NT-61SMAM	610 mm (24 in)	SMA- male
LPS82403NT-61RTNM	610 mm (24 in)	RTNC- male

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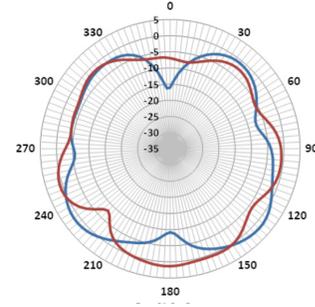
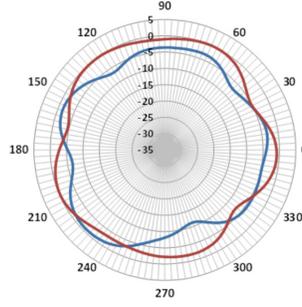
**AZIMUTH PATTERNS**

**ELEVATION PATTERNS**

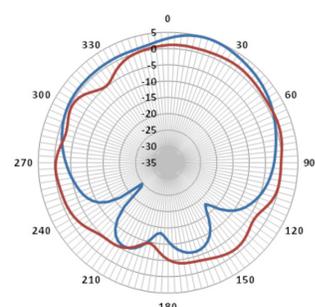
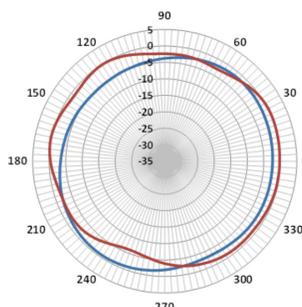
**824 MHz Radiation Pattern**



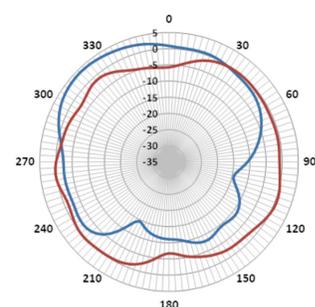
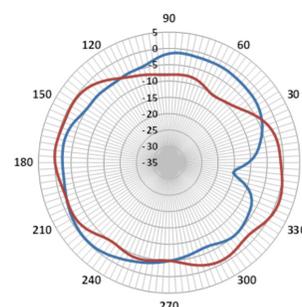
**894 MHz Radiation Pattern**



**1710 MHz Radiation Pattern**



**2170 MHz Radiation Pattern**



ANT-DS-LPS82403NT 0913

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