

ANT-LTE-WS-SMA Dipole Blade LTE Antenna

The WS antenna is a compact dipole blade antenna ideal for LTE and cellular IoT – LTE-M (Cat-M1) and NB-IoT – applications while also supporting low-power, wide-area (LPWA) networking including LoRaWAN®, Sigfox® and HaLow™ at 868 MHz and 915 MHz.

The hinged, rotating, design allows for the antenna to be positioned for optimum performance and reduces the potential for damage from impact compared to a fixed whip design.

The WS comes with an SMA plug (male pin) connector.



Features

- Covers all common 4G/3G/2G LTE bands
- Ground plane independent dipole antenna
- Performance at 1710 MHz to 2200 MHz
 - VSWR: ≤ 2.0
 - Peak Gain: 5.9 dBi
 - Efficiency: 75%
- Performance at 791 MHz to 960 MHz
 - VSWR: ≤ 1.7
 - Peak Gain: 3.4 dBi
 - Efficiency: 63%
- Rotating hinge design with detents for straight,
 45 degree and 90 degree positioning
- SMA plug (male pin) connector

Applications

- · Worldwide LTE, UMTS and GSM
- Cellular IoT: LTE-M (Cat-M1) and NB-IoT
- FirstNet® Public Safety
- Low-power, wide-area (LPWA) applications
 - LoRaWAN®
 - Sigfox®
 - WiFi HaLow™
- ISM Applications:
 - Bluetooth®
 - ZigBee®
- Internet of Things (IoT) devices
- Smart Home networking
- Sensing and remote monitoring

Ordering Information

Part Number	Description			
ANT-LTE-WS-SMA	Antenna with SMA plug (male pin)			

Available from Linx Technologies and select distributors and representatives.

Electrical Specifications

ANT-LTE-WS-SMA	Frequency Range	VSWR (max.)	Peak Gain (dBi)	Avg. Gain (dBi)	Efficiency (%)	
LTE 71	617 MHz to 698 MHz	3.0	4.1	-3.2	53	
LTE 12, 13, 14, 17, 26, 28, 29	698 MHz to 803 MHz	1.6	4.1	-2.2	63	
LTE 5, 8, 20	791 MHz to 960 MHz	1.7	3.4	-3.1	63	
LTE 1, 2, 3, 4, 25, 66	1710 MHz to 2200 MHz	2.0	5.9	-1.8	75	
LTE 30, 40	2300 MHz to 2400 MHz	2.1	3.1	-1.6	71	
LTE 7, 41	2496 MHz to 2690 MHz	2.2	4.1	-1.6	72	
GPS/GNSS	1553 MHz to 1609 MHz	3.3	5.0	-1.7	69	
ISM/WiFi	2400 MHz to 2485 MHz	2.3	3.3	-1.8	68	
Polarization	Linear	Impedance		50 Ω		
Radiation	Omnidirectional	Connection		SMA plug (male pin)		
Wavelength	1/2-wave	Electrical Type		Dipole		
Max Power	5 W	Weight		1.4 g (0.05 oz)		
Operating Temp. Range	-20 °C to +65 °C					
Dimensions	Height: 136.3 mm (5.40 in) Width: 20.0 mm (0.79 in)					

Electrical specifications and plots measured with the antenna straight, no reference ground plane.

VSWR

Figure 1 provides the voltage standing wave ratio (VSWR) across the antenna bandwidth. VSWR describes the power reflected from the antenna back to the radio. A lower VSWR value indicates better antenna performance at a given frequency. Reflected power is also shown on the right-side vertical axis as a gauge of the percentage of transmitter power reflected back from the antenna.

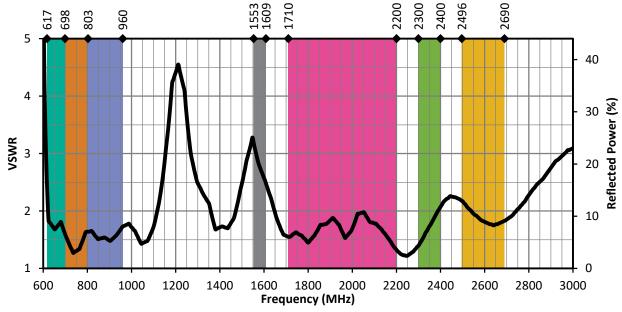


Figure 1. WS Series VSWR, with Frequency Band Highlights

Website: http://linxtechnologies.com • Phone: +1 (541) 471-6256 • E-MAIL: info@linxtechnologies.com • Linx Offices: 159 Ort Lane, Merlin, OR, US 97532

Linx Technologies reserves the right to make changes to the product(s) or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.

Wireless Made Simple is a registered trademark of Linx Acquisitions LLC. Bluetooth is a registered trademark of Bluetooth SIG, Inc. FirstNet is a registered trademark of U.S. Department of Commerce, First Responder Network Authority. LoRaWAN is a registered trademark of SIGFOX. ZigBee is a registered trademark of ZigBee Alliance, Inc. Wi-Fi HaLow is a trademark of the Wi-Fi Alliance. Other product and brand names may be trademarks or registered trademarks of their respective owners.

Copyright © 2020 Linx Technologies. All Rights Reserved.







X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Antennas category:

Click to view products by Linx Technologies manufacturer:

Other Similar products are found below:

GAN30084EU 930-033-R GW17.07.0250E 1513563-1 EXE902SM APAMPG-117 MAF94383 W3908B0100 W6102B0100 YE572113-30RSMM 108-00014-50 66089-2406 SPDA17RP918 A09-F8NF-M A09-F5NF-M RGFRA1903041A1T W3593B0100 W3921B0100 SIMNA-868 SIMNA-915 SIMNA-433 W1044 W1049B090 A75-001 WTL2449CQ1-FRSMM CPL9C EXB148BN 0600-00060 TRA9020S3PBN-001 GD5W-28P-NF MA9-7N GD53-25 GD5W-21P-NF EXB144SM C37 MAF94051 GD35-17P-NF P1744 MA9-5N EXD420PL B1322NR QWFTB120 MAF94271 MAF94300 GPSMB301 FG4403 AO-AGSM-OM54 5200232 MIKROE-2349 WCM.01.0111