

Product Brief



ID Industrial Series 2.4 GHz Remote-Mount Dipole Whip Antenna

The ID series industrial dipole antennas are designed for rugged outdoor applications and are rated for a wide temperature range and UV exposure for long-term reliability.

The 2.4 GHz ID antenna provides excellent performance for 2.4 GHz WiFi/WLAN and ISM applications including Bluetooth® and ZigBee®.

The antenna can be mounted using the integrated mounting flange with 2 screws for permanent installation or with the optional adhesive patch. The antenna connects via RG-58/U coaxial cable in lengths of 1 or 2 meters which allows the antenna to be remote-mounted for optimal RF performance, and is terminated with an SMA plug (male pin), or RP-SMA plug (female socket) connector for FCC Part 15 compliant applications.



Features

- Performance at 2.4 GHz to 2.485 GHz
 - VSWR: ≤ 1.4
 - Peak Gain: 3.9 dBi
 - Efficiency: 50%
- Weatherized assembly for outdoor installation
 - Antenna rated IP-67
 - UV protection, UL 2556 Section 4.2.8.5 or equivalent
- Low-profile antenna with Integrated mounting flange
- SMA plug (male pin) or RP-SMA plug (female socket) connector

Applications

- Single-band WiFi/WLAN
 - 802.11b/g
- ISM applications
 - Bluetooth®
 - ZigBee®
- Internet of Things (IoT) devices
- Sensing and remote monitoring
- Smart Home networking

Ordering Information

Part Number	Description
ANT-2.4-ID-1000-SMA	Antenna with 1 m of RG-58/U coaxial cable, terminated in an SMA plug (male pin)
ANT-2.4-ID-1000-RPS	Antenna with 1 m of RG-58/U coaxial cable, terminated in an RP-SMA plug (female socket)
ANT-2.4-ID-2000-SMA	Antenna with 2 m of RG-58/U coaxial cable, terminated in an SMA plug (male pin)
ANT-2.4-ID-2000-RPS	Antenna with 2 m of RG-58/U coaxial cable, terminated in an RP-SMA plug (female socket)
MEC-PSA-ID	Optional adhesive patch

Available from Linx Technologies and select distributors and representatives.

Electrical Specifications

ANT-2.4-ID	2.4 GHz		
Frequency Range	2.4 GHz to 2.485 GHz		
VSWR (max)	1.4		
Peak Gain (dBi)	3.9		
Average Gain (dBi)	-3.2		
Efficiency (%)	50		
Cable	RG-58/U in 1 m (39.37 in) or 2 m (78.74 in) length		
Connection	SMA plug (male pin) or RP-SMA plug (female socket)		
Impedance	50 Ω	Polarization	Linear
Wavelength	1/2-wave	Electrical Type	Dipole
Radiation	Omnidirectional	Max Power	10 W
Dimensions	Length: 104.4 mm (4.11 in), Diameter: 9.5 mm (0.37 in)		
Weight	55.8 g (1.97 oz) or 94.4 g (3.33 oz)		
Operating Temp. Range	-40 °C to +80 °C		

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.

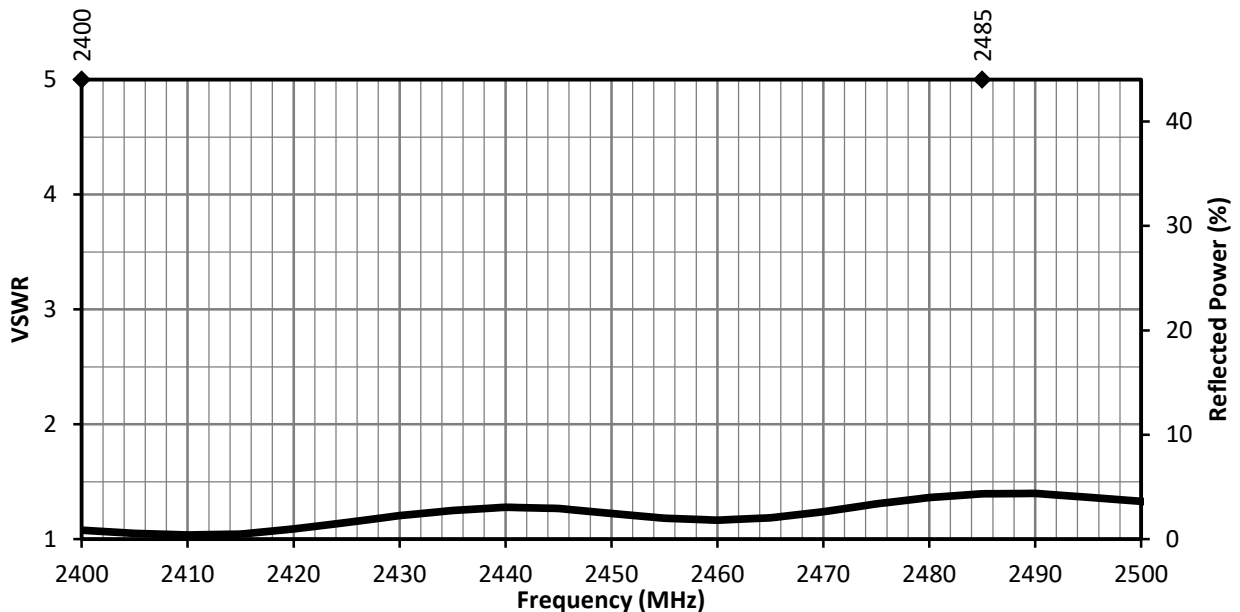


Figure 1. ANT-2.4-ID VSWR

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