

iANT212 Omni Directional WiFi Rugged Antenna



2.4GHz - 5.8GHz spherically patterned wide band antenna

Suitable for Groups I, II, III

-40°C to +85°C

Simple Apparatus

IP68

Overview

The iANT212 is an ultra compact industrial antenna designed for use in the most extreme environments. It is suitable for either indoor or outdoor use, and optimised for use in WLAN installations between 2.4GHz and 5.8GHz spectrum for IEEE802.11 a/b/g/n wireless networks or wireless MESH Ethernet networks. It can be used with Extronics range of access points and mesh routers such as the iWAP200.

Indoor, Outdoor operation

The iANT212 design is suited for both indoor and outdoor operation. It is constructed from rugged ASA plastic and nickel plated brass, with IP68 ingress protection so is resistant to water ingress and corrosion in the most arduous of environments. Connection is made via an N-type male connector, providing a robust and weatherproof termination.

Gain and Directionality

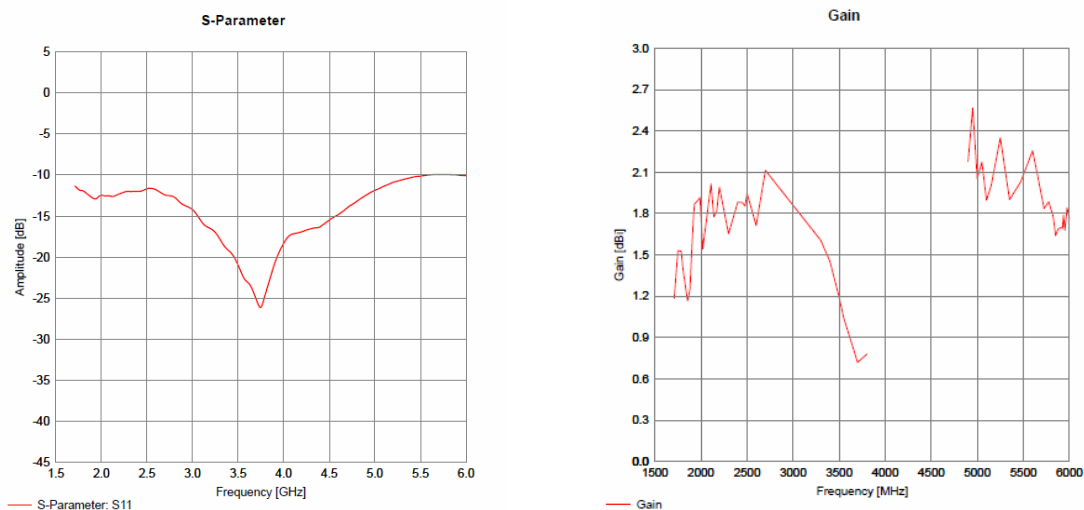
These antennas are extremely diverse with near spherical patterning offering a gain of up to 2.5dBi. They provide obstruction penetrating qualities and, due to their design, offer excellent 360° coverage in both the horizontal (azimuth) and the elevation (e-plane), meaning that they will give excellent coverage in a wide range of environments. This antenna is ideal for handheld or close deployments providing position independency.

Easy Mounting

This antenna can be easily mounted due to their size and weight. Antennas can mount directly to equipment by way of the robust N-type connector.

Please Note: The iANT2xx range of antennas is classed as "Simple Apparatus" under international intrinsic safety standards. IEC 60079-25 requires that simple apparatus equipment used in an intrinsically safe electrical system is compliant with IEC 60079-0, IEC 60079-11, IEC 60079-14 & IEC 60079-25. Extronics has assessed the iANT2xx antenna range together with our intrinsically safe certified wireless products to provide solutions compliant to all relevant standards. Therefore iANT2xx antennas can be deployed in a hazardous area, as part of an Extronics system, without the need to undergo further assessment. Compliance is also maintained if an iANT2xx antenna is used with the Extronics iSOLATE500 RF galvanic isolator. If the antenna is not to be used with Extronics' products, then the system designer must assess the hazard and demonstrate compliance to the relevant standards.

Diagrammatical Data





Wireless



Vision



Engineering

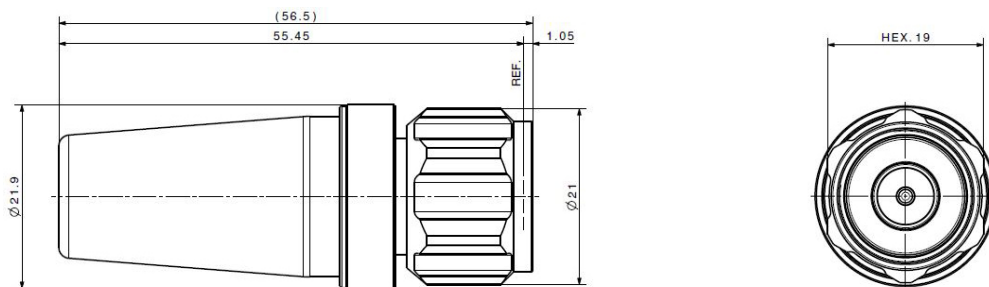


Tracking

Specification

Dimensions	55mm Height, 22mm Diameter
Weight	50g
Connections	N-Type Male, Bottom
Frequency Range (GHz)	1.7 - 2 2 - 2.7 2.7 - 3.8 4.9 - 5.15 5.15 - 6
Gain	1.5 dBi 2 dBi 1.5 dBi 2.5 dBi 2dBi
VSWR	2
3dB beamwidth (h) (°)	360
Impedance	50 Ohms
Azimuth Beam width (3dB)	360°
Elevation Beam width (3dB)	360°
Polarisation	Spherical
Ambient Temperature	-40°C to 85°C
Storage Temperature (°C)	-40°C to 85°C
Radome Material	ASA Plastic
IP Rating	IP68
Certification type	Simple Apparatus

Dimensions



Ordering Information

Description

2.4–5.8GHz Spherical Pattern WLAN antenna 2.5dBi Gain

Part Number

iANT212