

iANT200 Intrinsically Safe Omni Directional Antenna



External antenna offering a simple omni directional pattern for general use.

ATEX II 1 G Ex ia IIC T6

-30°C to 80°C

IP66

Overview

The iANT200 is a rugged antenna which is ATEX approved as simple apparatus for use in all hazardous area environments. It is suitable for either indoor or outdoor use. The iANT200 is optimised for use in WLAN installations in the 2.4GHz/5.8GHz spectrum for IEEE802.11 b/g wireless networks or 2.4GHz/5.8GHz wireless mesh Ethernet networks. It can be used with the Extronics' range of access points such as the iWAP102, iWAP200 and iWAP300.

Indoor and Outdoor operation

The iANT200 is suitable for both indoor and outdoor operation, as it is made from GRP and Delrin™ meaning it is resistant to effectively any chemical or contaminant found in industry. Rated to IP66 and -30°C to 80°C it can be used in every climate without concerns. Connection is made via a short flying lead.

Gain and Directionality

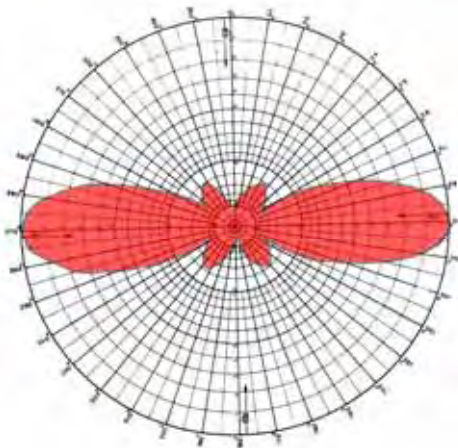
The iANT200 offers a gain of 5dBi @ 2.4GHz & 8dBi @ 5.8GHz with an omni-directional pattern. It is ideal for use in simple applications where good general coverage is required.

Easy Mounting

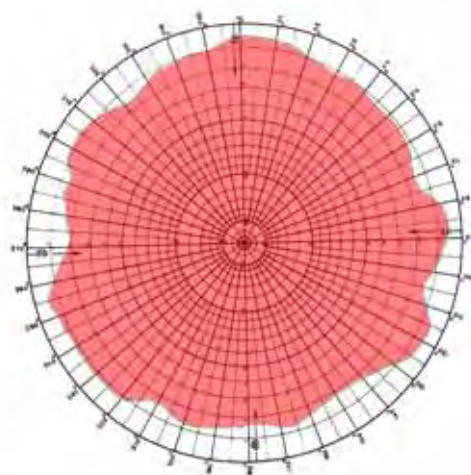
The antenna can be easily mounted and positioned with the aluminium bracket supplied or if preferred an optional 316 stainless steel mounting bracket is available as an option.

Diagrammatical Data

Elevation (E Plane) Radiation Pattern



Horizontal (H Plane) Radiation Pattern (Azimuth)



Specification

Dimensions	2.4GHz — 175mm Length, 28mm Diameter 5.8GHz — 205mm Length, 29mm Diameter
Weight	100g
Connections	Dependent on part number (BNC/TNC/SMA + Others on request)
Cable Sealed Lead Length	Supplied as 1 or 5 metre (Others on request)
Frequency Range	2.3—2.5 GHz 5.15—5.875 GHz
Bandwidth	100MHz
Impedance	50 Ohms
Return Loss	Better than 12 dB
Gain	5 dBi @ 2.4 GHz 8 dBi @ 5.8 GHz
VSWR	<2: 1
Azimuth (Horizontal) 3dB beamwidth	360°
Elevation (Vertical) 3dB beamwidth	35°
Radiation Angle	0°
Polarization	Vertical
Radiator Element	Brass tubing
Tube Material	GRP, colour white
Base Material	Delrin™
Ambient Temperature	-30°C to 80°C
IP Rating	IP66
Certification	II 1 G Ex ia IIC T5/T6
Certification Type	Simple Apparatus

Ordering Information

Description

2.4 GHz Omni-Directional WLAN antenna with 5M lead
 2.4 GHz Omni-Directional WLAN antenna with 1M lead
 5.8 GHz Omni-Directional WLAN antenna with 5M lead
 5.8 GHz Omni-Directional WLAN antenna with 1M lead

Part Number

iANT200-24-5
 iANT200-24-1
 iANT200-58-5
 iANT200-58-1

Optional Accessories

iANT Antenna Bracket for Mounting onto iWAP Enclosure 316L, 300mm Separation

iANTMB02

For alternative RF connector & cable length options please contact Extronics with your requirements