

iANT100 Zone 1 Omni Directional Antenna



External Antenna offering increased flexibility for positioning and greatly enhanced RF Propagation.

II 2 GD EEx e II T6

-40°C to 60°C

IP66

Overview

The iANT100 is an increased safety antenna and has been designed and ATEX approved for use in Zone 1 / 21 & Zone 2/22 Hazardous Area Environments. The iANT100 is optimised for use in WLAN installations in both the 2.4GHz and 5GHz spectrums for IEEE802.11 a/b/g wireless networks or wireless MESH Ethernet networks. It can be used with explosion proof Access Points such as the Extronics iWAP103 or the Access Point may be installed in a safe area and just the antenna installed in the hazardous area.

Indoor, Outdoor operation

The iANT 100 is suitable for both indoor and outdoor operation, as it is made from a very rugged and durable material that is resistant to effectively any chemical or contaminant found in industry. Rated to IP66 and with -40°C to 60°C it can be used in every climate without concerns. From Offshore platforms to chemical or pharmaceutical plants the iANT100 can be relied upon.

Gain and Direction

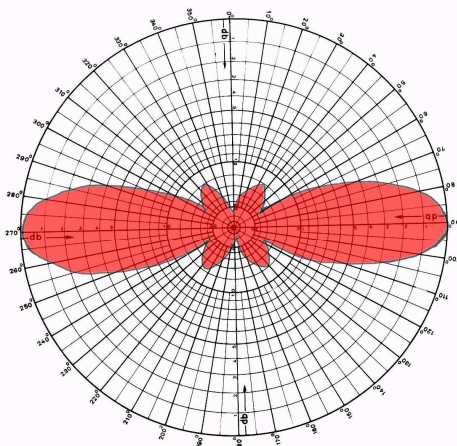
These antenna offer a high gain as well as being Omni Directional meaning they will give excellent coverage in a plant environment.

Easy Mounting

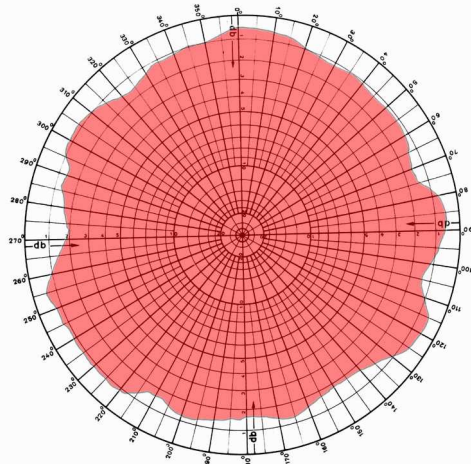
The antenna can be easily mounted and positioned with the aluminium bracket supplied or if preferred an optional 316 stainless steel mounting bracket is available as an extra.

Diagrammatical Data

2.4GHz
E Plane Pattern Vertical Free Space Beamwidth
Approx 40°

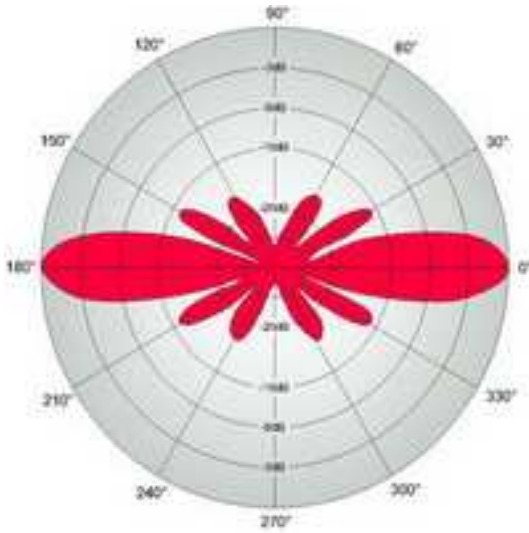


2.4GHz
H Plane Pattern Vertical Free Space Beamwidth
Approx 40°

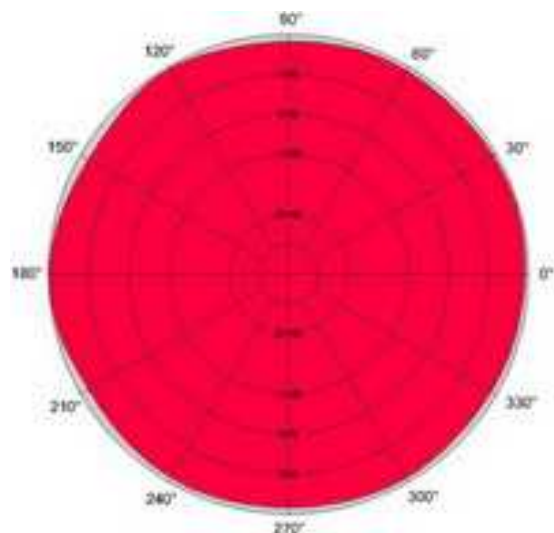


Diagrammatical Data

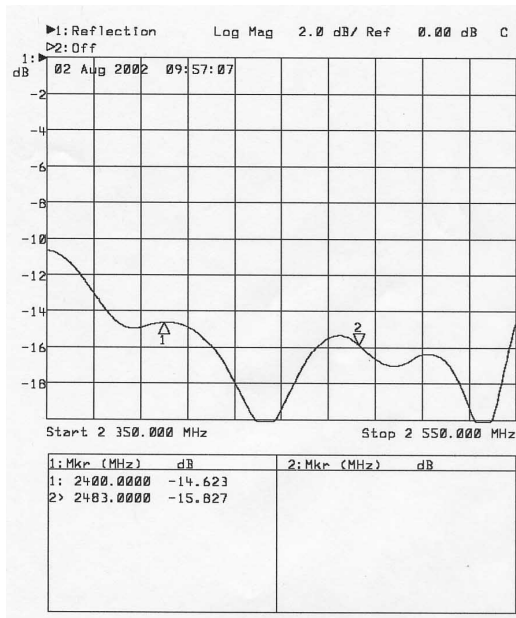
5GHz
E Plane Pattern Vertical Free Space Beamwidth
Approx 40°



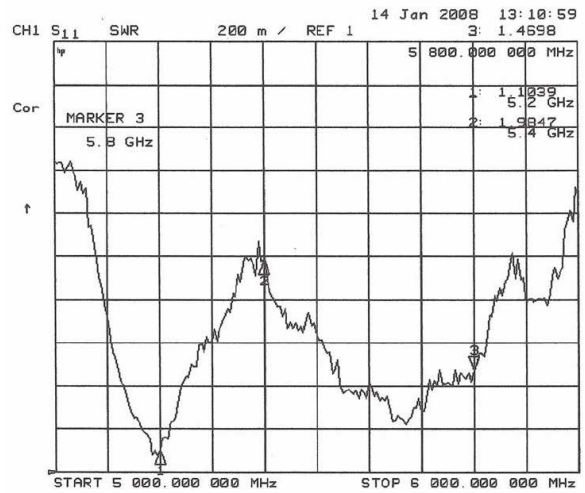
5GHz
H Plane Pattern Vertical Free Space Beamwidth
Approx 40°



2.4GH (VSWR) Plot Voltage Standing Wave Ratio
<:1 Over 2400–2483 MHz



5GHz(VSWR) Plot Voltage Standing Wave Ratio
<:1 Over 5000–6000 MHz



Specification

Parameter	iANT100-24	iANT100-58
Power	Max power 1 Watt continuous	Max power 1 Watt continuous
Dimensions	210mm Length, 38mm Diameter	210mm Length, 38mm Diameter
Weight	350g	350g
Connections	Reverse Polarity BNC (Other connector types available on request)	Reverse Polarity BNC (Other connector types available on request)
Cable Sealed Lead Length	Supplied as 1 or 5 metre	Suitable for Supplied as 1 or 5 metre
Frequency	2300 – 2500MHz	5150–5875MHz
Bandwidth	100MHz	Bands A, B and C
Impedance	50 Ohms	50 Ohms
Return Loss	Better than -12 dB over bandwidth	Better than -12 dB over bandwidth
Gain	5 dBi	8 dBi
Radiation Pattern	Omni Directional	Omni Directional
Radiator Element	Brass tubing, copper plated steel rod	PCB and Brass tubing.
Ambient Temperature	-40°C to 60°C	-40°C to 60°C
IP Rating	IP66	IP66
Certification Number	Sira 06ATEX3198X	Sira 06ATEX3198X
ATEX Certification	II 2 GD EEx e II T6 (T _a = -40°C to 60°C) IP66	II 2 GD EEx e II T6 (T _a = -40°C to 60°C) IP66

Ordering Information

Description

2.4Ghz Omni-Directional Zone 1/21 & Zone 2/22 WLAN antenna with 5M lead
 2.4GHz Omni-Directional Zone 1/21 & Zone 2/22 WLAN antenna with 1M lead (Special Order Only)
 5GHz Omni-Directional Zone 1/21 & Zone 2/22 WLAN antenna with 5M lead (Special Order Only)
 5GHz Omni-Directional Zone 1/21 & Zone 2/22 WLAN antenna with 1M lead (Special Order Only)

Part Number

iANT100-24-5
 iANT100-24-1
 iANT100-58-5
 iANT100-58-1

Optional Accessories

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

iANTMB02

Nickel Plated Brass Cable Gland II 2 GD EExd IIC

CR-UB-NP-16-M20

For alternative RF connector options please contact Extronics with your requirements