

## iANT210 Intrinsically Safe Directional Sector Antenna



*Range of external sector antennas offering a flexible solution to coverage in difficult environments*

*II 1 G Ex ia IIC T6*

*-40°C to 80°C*

*IP65*

### Overview

The iANT210 is a series of sector antennas which are ATEX approved as simple apparatus for use of wireless networks in hazardous areas. The iANT210 is optimised for use in WLAN installations in the 2.4GHz and 5.8GHz spectrum for IEEE802.11 a/b/g wireless networks or wireless mesh Ethernet networks. It can be used with the Extronics range of access points and mesh routers such as the iWAP102, iWAP200 and iWAP300.

#### Indoor and Outdoor operation

The iANT210 is suitable for both indoor and outdoor operation, being constructed of weatherproof and UV stable plastic, with an aluminium back-plate. An N-type connector on the bottom of the antenna provides a robust and weatherproof connection.

#### Gain and Directionality

The iANT210 is available with an azimuth 3dB beamwidth of either 90°, 120° or 180° at 2.4GHz or 5.8GHz. This provides the user with a great deal of flexibility in designing coverage for complex wireless networks in difficult environments. In addition, the mounting bracket allows for up to a 25° downtilt, giving further flexibility.

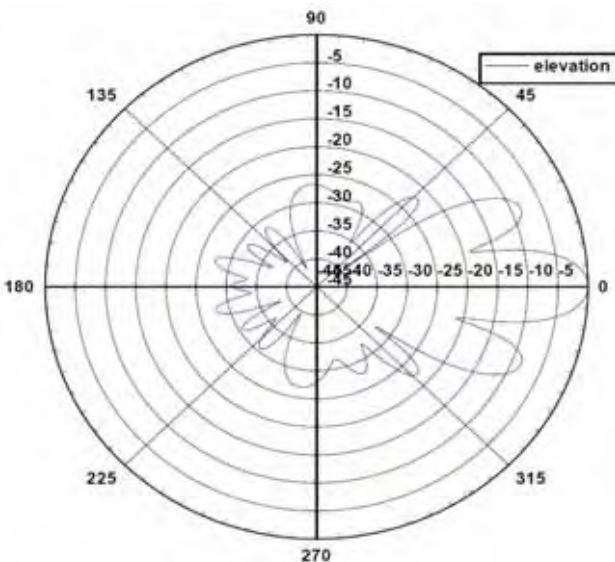
#### Easy Mounting

The antenna can be easily mounted and positioned with the steel bracket supplied.

### Diagrammatical Data

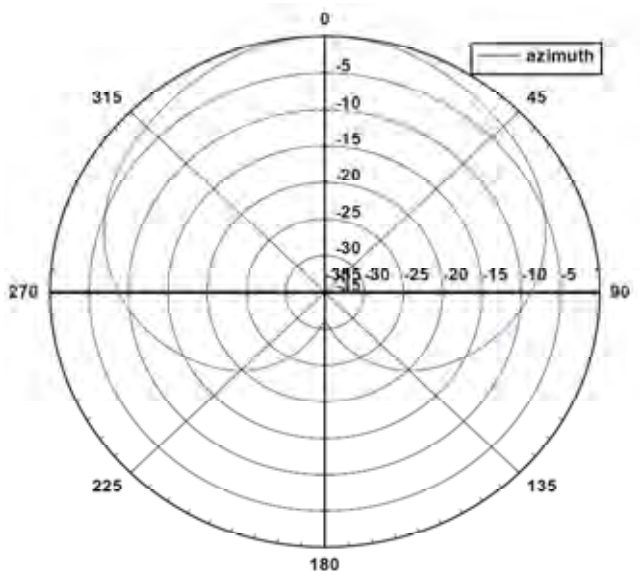
**iANT210-24-90**

**Elevation (E Plane) Radiation Pattern**



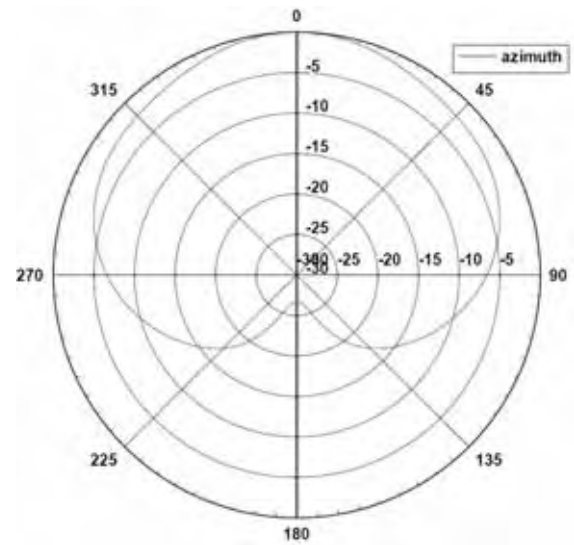
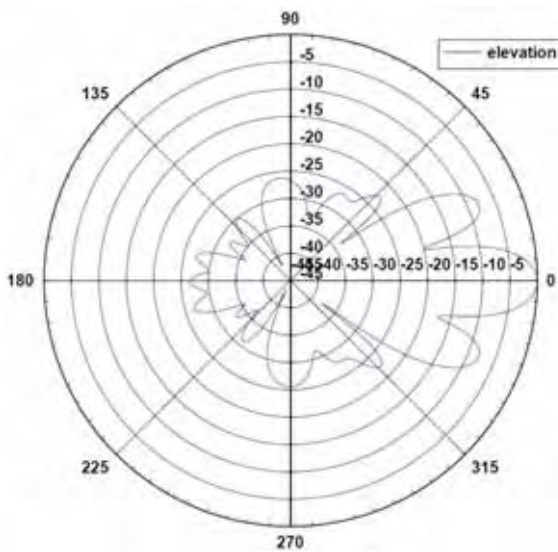
**iANT210-24-90**

**Azimuth (H Plane) Radiation Pattern**

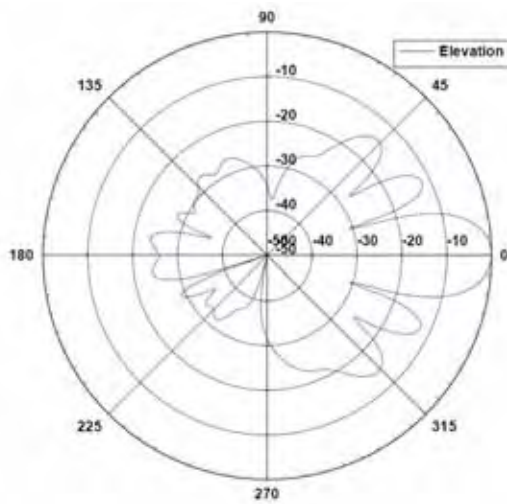




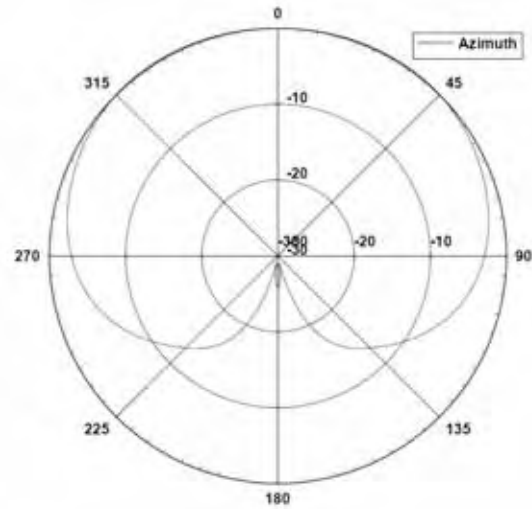
**iANT21  
0-24-  
120  
Elevation (E  
Plane)  
Radiation  
Pattern**



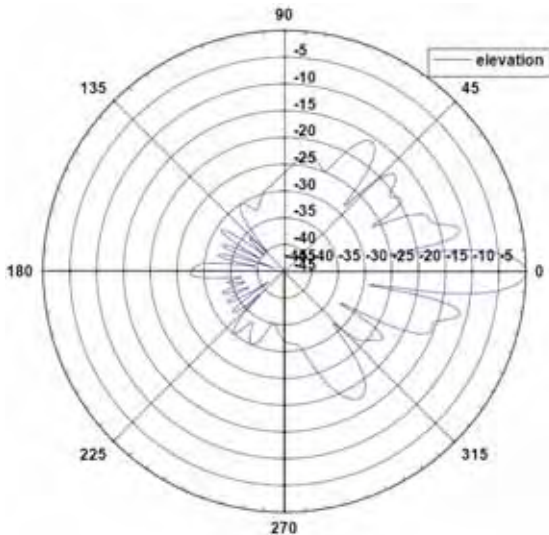
**iANT210-24-180  
Elevation (E Plane) Radiation Pattern**



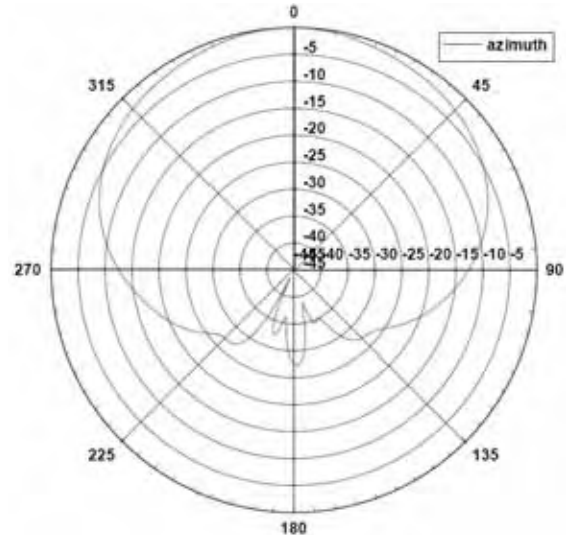
**iANT210-24-180  
Azimuth (H Plane) Radiation Pattern**



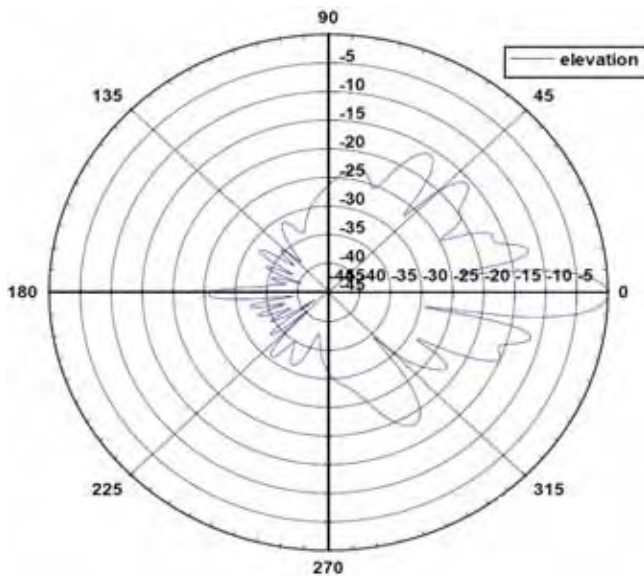
**iANT210-58-90  
Elevation (E plane) Radiation Pattern**



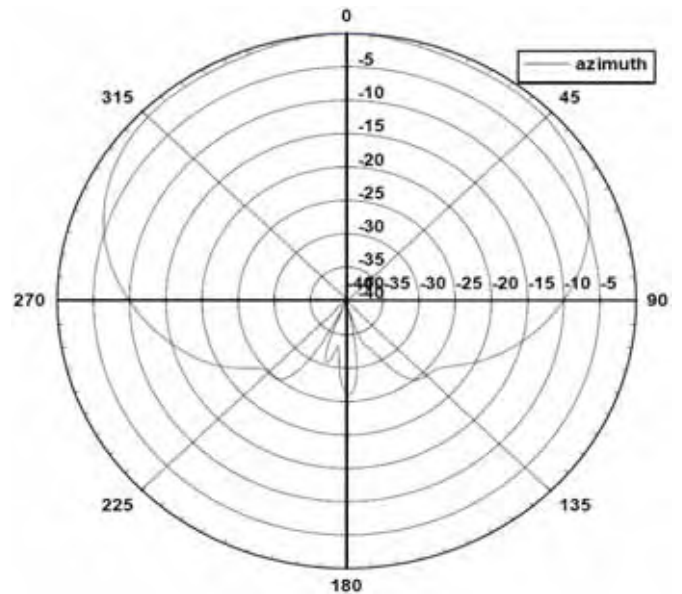
**iANT210-58-90  
Azimuth (H Plane) Radiation Pattern**



**iANT210-58-120**  
Elevation (E Plane) Radiation Pattern



**iANT210-58-120**  
Azimuth (H Plane) Radiation Pattern



## Specification

<b>Dimensions</b>	435 x 225 x 75 mm
<b>Weight</b>	Approx 1Kg
<b>Connections</b>	N-Type Female
<b>Frequency Range</b>	2.4 - 2.485 or 5.75 - 5.85 GHz Band C (Bands A and B are available on request)
<b>Impedance</b>	50 Ohms
<b>Gain</b>	iANT210-24-90 = 13.5 dBi iANT210-24-120 = 12 dBi iANT210-24-180 = 10 dBi iANT210-58-90 = 15.5 dBi iANT210-58-120 = 14 dBi
<b>VSWR</b>	<1.8 : 1
<b>Azimuth (Horizontal) 3dB Beamwidth</b>	iANT210-24-90 = 90° iANT210-24-120 = 120° iANT210-24-180 = 180° iANT210-58-90 = 90° iANT210-58-120 = 120°
<b>Elevation (Vertical) 3dB Beamwidth</b>	iANT210-24-90 = 15° iANT210-24-120 = 15° iANT210-24-180 = 15° iANT210-58-90 = 8° iANT210-58-120 = 8°
<b>Downtilt</b>	Variable 0° - 25°
<b>Front-back ratio</b>	iANT210-24-90 = 31dB iANT210-24-120 = 27dB iANT210-24-180 = 26dB iANT210-58-90 = 28dB iANT210-58-120 = 26dB
<b>Polarisation</b>	Vertical
<b>Ambient Temperature</b>	-40°C to 80°C
<b>IP Rating</b>	IP65
<b>Certification Type</b>	Simple Apparatus
<b>Certification</b>	II 1 G Ex ia IIC T6



# Hazardous Area Specialists

## Ordering Information

### Description

- 2.4 GHz Intrinsically Safe 90° Sector Antenna
- 2.4 GHz Intrinsically Safe 120° Sector Antenna
- 2.4 GHz Intrinsically Safe 120° Sector Antenna
- 5.8 GHz Intrinsically Safe 90° Sector Antenna
- 5.8 GHz Intrinsically Safe 120° Sector Antenna

### Part Number

- iANT210-24-90
- iANT210-24-120
- iANT210-24-180
- iANT210-58-90
- iANT210-58-120

For alternative RF connector options please contact Extronics with your requirements