

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 T5/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° or 120° 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.

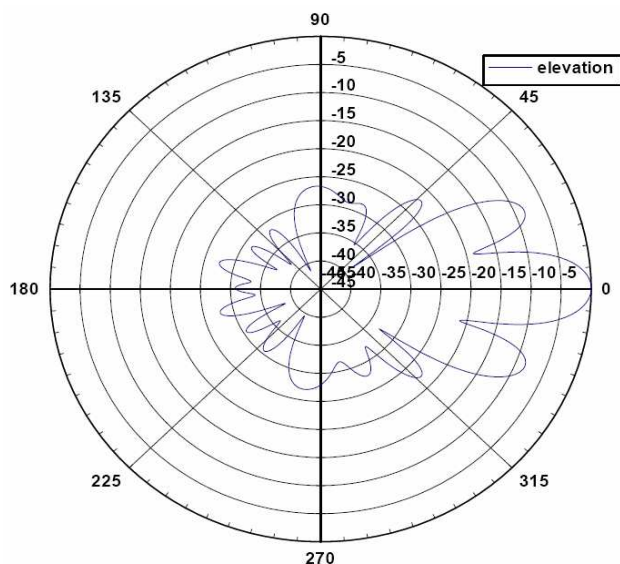
Easy Mounting

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

Diagrammatical Data

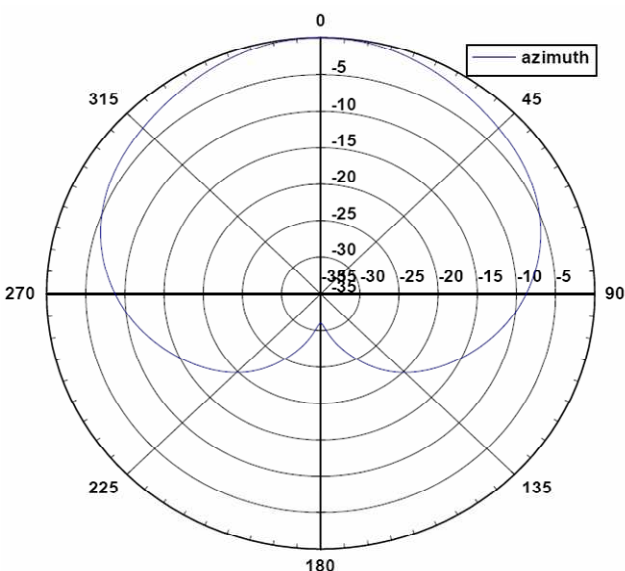
iANT210-24-90

Elevation (E Plane) Radiation Pattern

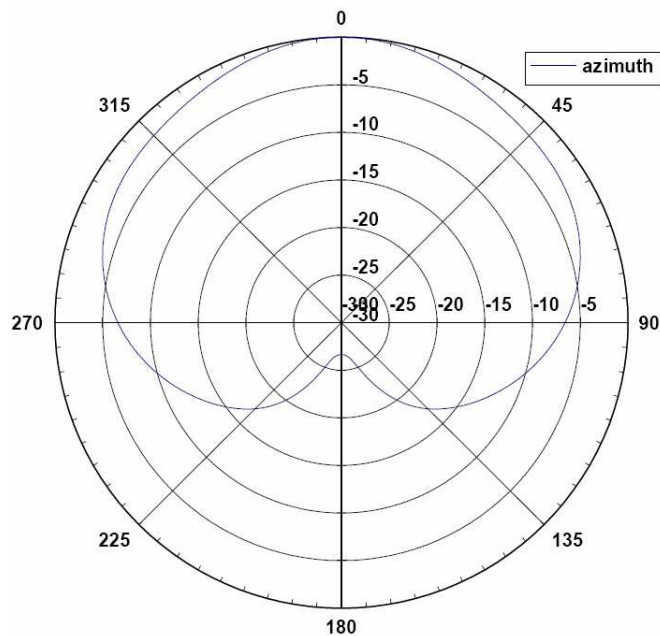
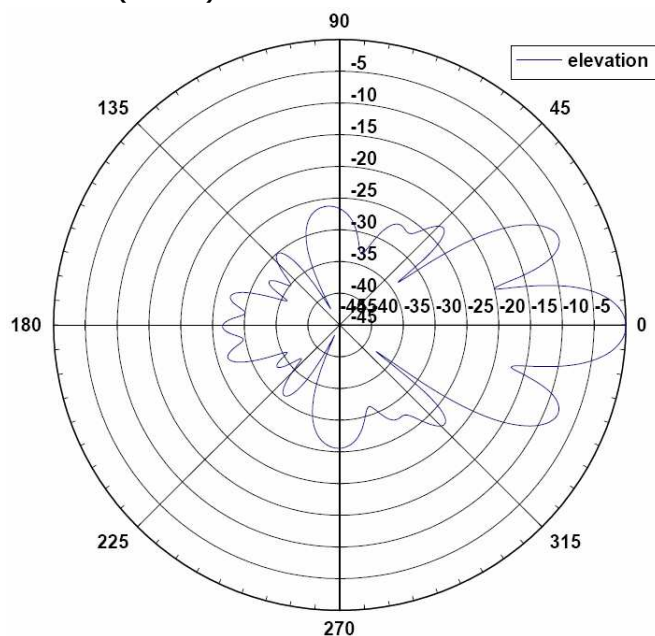


iANT210-24-90

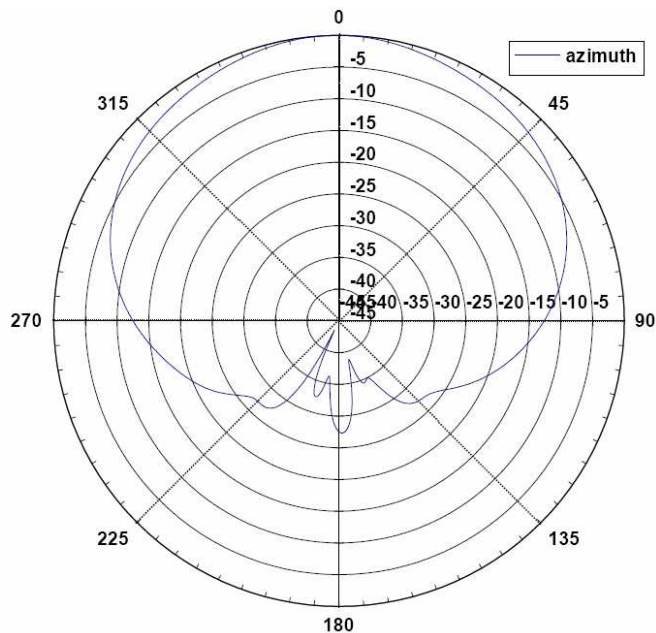
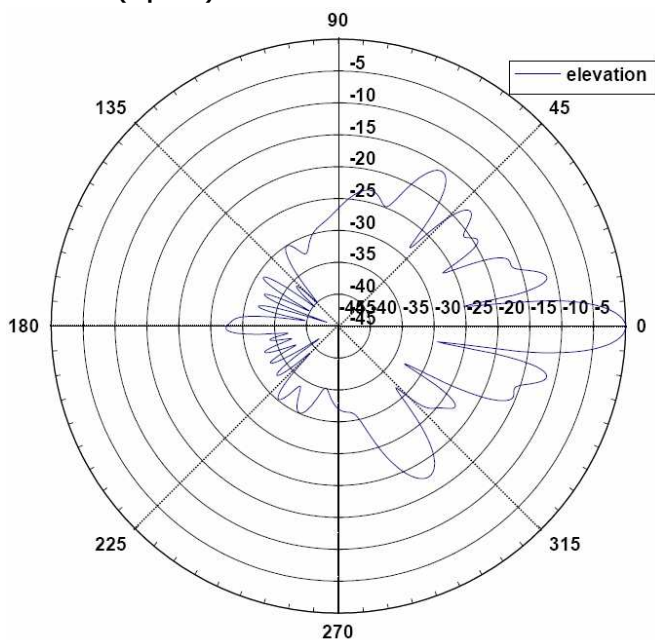
Azimuth (H Plane) Radiation Pattern



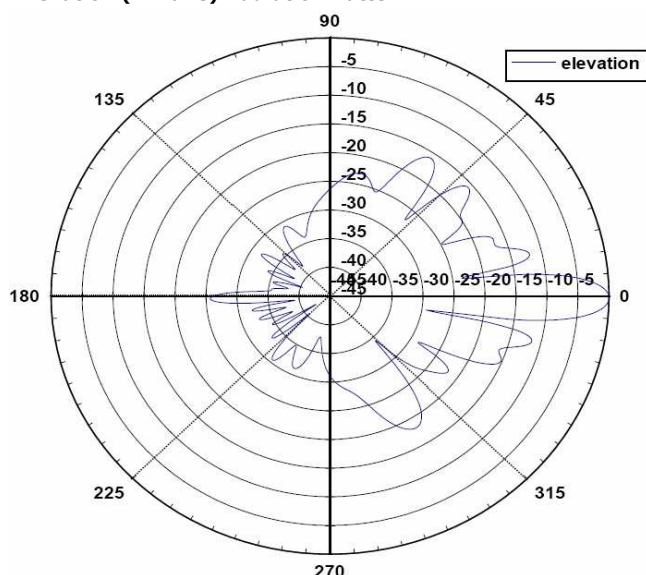
iANT210-24-120
Elevation (E Plane) Radiation Pattern



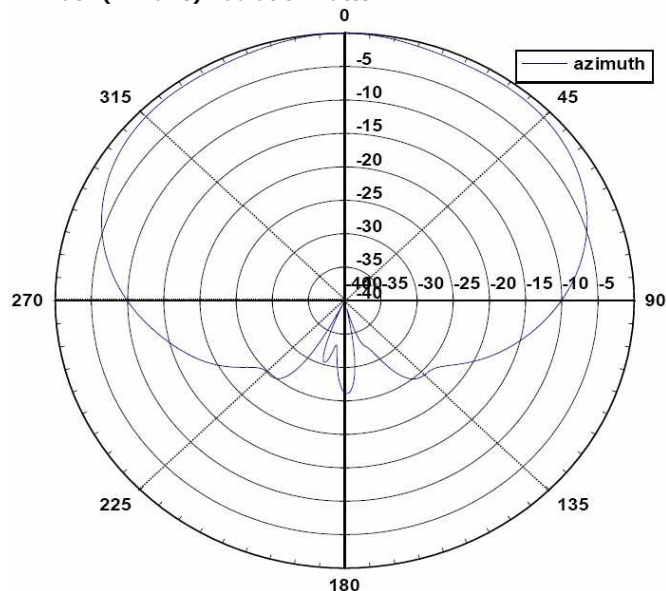
iANT210-58-90
Elevation (E plane) Radiation Pattern



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



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



Specification

Dimensions	435 x 225 x 75 mm
Weight	Approx 1Kg
Connections	N-Type Female
Frequency Range	2.4 - 2.485 or 5.75 - 5.85 GHz
Impedance	50 Ohms
Gain	iANT210-24-90 = 13.5 dBi iANT210-24-120 = 12 dBi iANT210-58-90 = 15.5 dBi iANT210-58-120 = 14 dBi
VSWR	1.8 : 1
Azimuth (Horizontal) 3dB Beamwidth	iANT210-24-90 = 90° iANT210-24-120 = 120° iANT210-58-90 = 90° iANT210-58-120 = 120°
Elevation (Vertical) 3dB Beamwidth	iANT210-24-90 = 15° iANT210-24-120 = 15° iANT210-58-90 = 8° iANT210-58-120 = 8°
Downtilt	Variable 0° - 25°
Front-back ratio	iANT210-24-90 = 31dB iANT210-24-120 = 27dB iANT210-58-90 = 28dB iANT210-58-120 = 26dB
Polarisation	Vertical
Ambient Temperature	-40°C to 80°C
IP Rating	IP65
Certification Type	Simple Apparatus
Certification	II 1 G Ex ia IIC T5/T6



Specialists for intrinsically safe
& explosion proof equipment

Ordering Information

Description

2.4 GHz Intrinsically Safe 90° 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
iANT210-58-90
iANT210-58-120

For alternative RF connector options please contact Extronics with your requirements