

TECHNICAL DATASHEET



iANT 214



Directional simple apparatus Wi-Fi antenna.

Safe to use in hazardous areas when connected to an intrinsically safe RF output, such as the iWAP series or other solutions using the iSOLATE501

Optimised for use in 2.4/5.8GHz WLAN installations or wireless mesh Ethernet networks

Ideal for point-to-point applications

Assessed by Extronics engineers as simple apparatus

Vertically polarised or dual slant (2x2 MIMO)

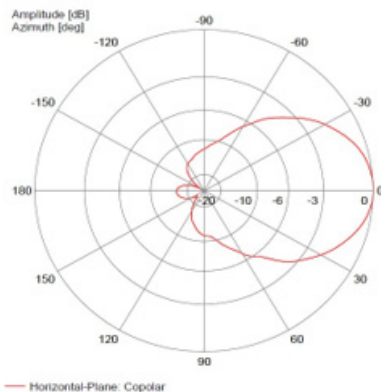
Rugged with wide temperature range - use indoors or outdoors

Directional coverage with up to 8.5 / 14 dBi

Supplied with aluminium mounting bracket

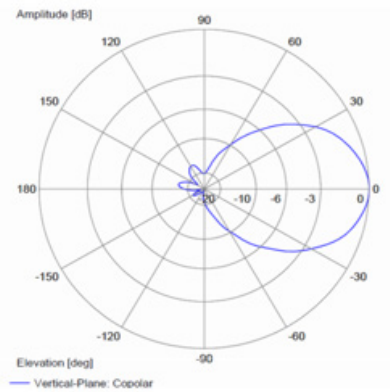
Easy to install, no specialist tools needed

2.4GHz horizontal plane: copolar



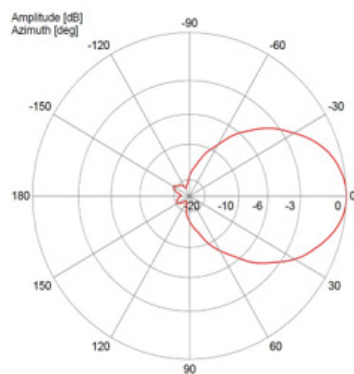
— Horizontal-Plane: Copolar

2.4GHz vertical plane: copolar



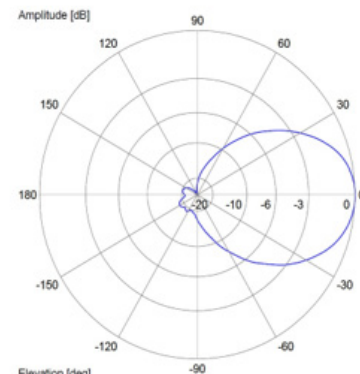
— Vertical-Plane: Copolar

2.4GHz horizontal plane +/- 45°:



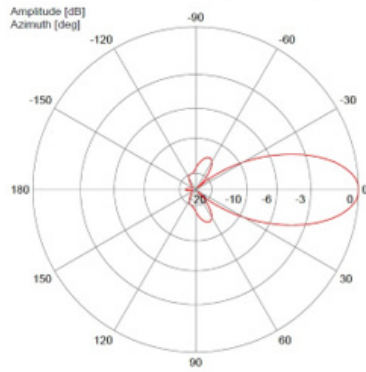
— Horizontal-Plane: Copolar

2.4GHz vertical plane +/-45°: copolar



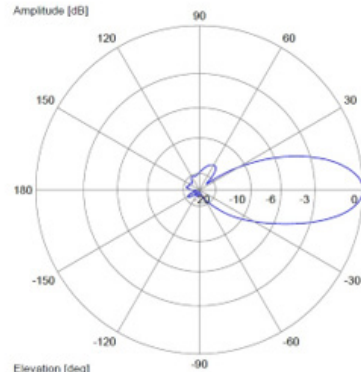
— Vertical-Plane: Copolar

5.75GHz horizontal plane: copolar



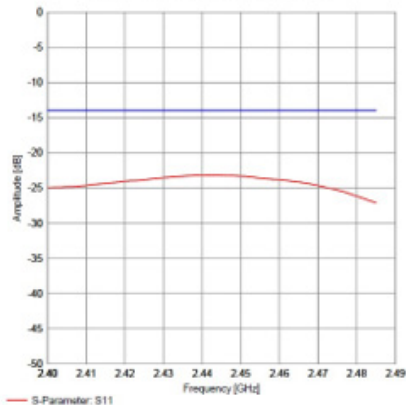
— Horizontal-Plane: Copolar

5.75GHz vertical plane: copolar



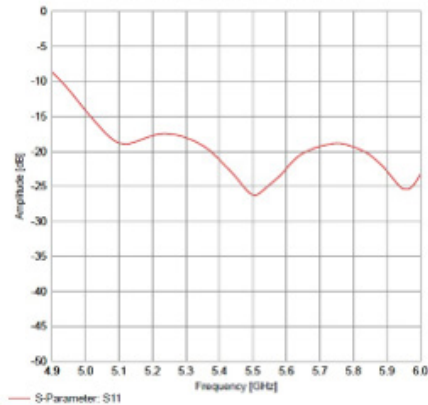
— Vertical-Plane: Copolar

S-Parameter (2.4GHz)



— S-Parameter: S11

S-Parameter (5.75GHz)



— S-Parameter: S11

SPECIFICATION



	iANT214-2400	iANT214-2400D	iANT214-5000
Frequency band	2400-2485 MHz	2400-2485 MHz	5150-5975 MHz
Gain	8.5 dBi	8 dBi	14 dBi
Polarisation	Vertical	+/- 45° slant (2x2 MIMO)	Vertical
Horizontal 3dB beam width	75°	75°	40°
Vertical 3dB beam width	75°	70°	35°
Front to back ratio	12 dB	14 dB	20 dB
Isolation between port	-	25 dB	-
RF connection	N, jack (female)	2 x SMA, jack (female)	N, jack (female)
	All variants:		
VSWR	1.5		
DC grounded	Yes		
Windload	Frontal 15 N at 160km/h		
Nominal impedance	50 Ohms		
Radome material	UV stabilised polycarbonate		
Flammability	UL94-V0		
Ingress protection	IP67		
Temperature	-40°C to +80°C (operating and storage)		
Composite power max	10W @ 25°C		
Dimensions	H101 x W80 x D35 mm		
Weight	110 g		
RF connections	Includes 3 x RG316 cables with N-male connectors (800mm approx. length)		
Vibration	According to IEC 60721-3-4		
Mounting	Supplied with aluminium wall mount bracket		

ORDERING INFORMATION

iANT214-2400
iANT214-2400D
iANT214-5000

iANT214 directional antenna 2400MHz
iANT214 directional antenna 2400MHz dual slant (2x2 MIMO)
iANT214 directional antenna 5000MHz

www.extronics.com | info@extronics.com | +44 (0) 845 277 5000

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