Dual Polarized 5GHz BridgePoynt

Operating Frequency - 5.15-6GHz
Product code: WLAN-A0043

This product (WLAN-A0043) is an outdoor enclosure with integrated 5GHz, dual polarized antennas (two integrated antennas: one vertically polarized and one horizontally polarized both with the same gain).

It also features a waterproof ethernet gland with an integrated RJ45 connector for direct clip-on and clip-off of your ethernet cable without having to open the enclosure. Six movable posts with self tapping screws and double-sided tape are provided to mount your electronics and a mast mounting bracket with elevation tilt and azimuth adjustment is also included.

For protection from surges and static buildup, the product features a grounding lug to ground internally mounted electronics to the mounting structure if desired and the internal antenna antennas are both DC shorted.

Features:

- Integrated dual polarised 5GHz antennas with DC short
- External grounding lug
- Waterproof RJ45 gland

Application areas:

- 5 GHz CPE applications (WiFi/Wimax)
- Long range point-to-point links using dual radio technology

Specifications:

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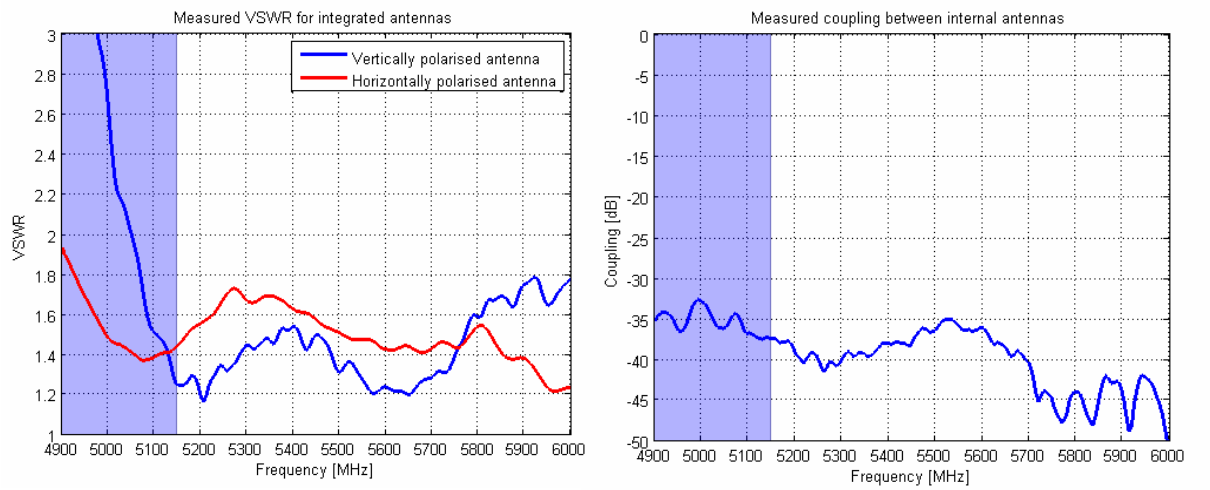
WLAN-A0043 Dual internal antennas with SMA(f) connector

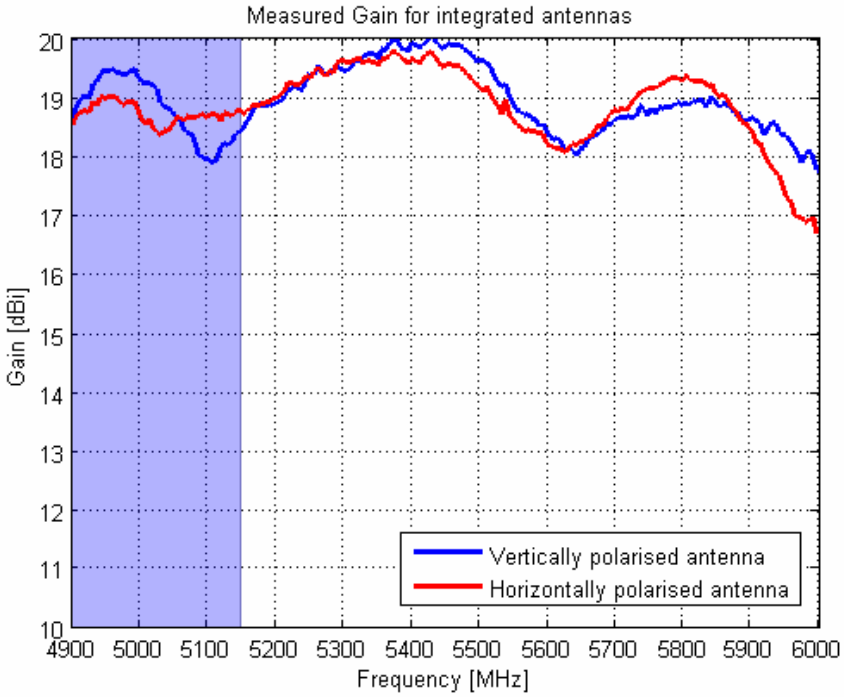
Electrical:	
Gain (max)	20 dBi (+-0.5 dB)
Gain (min over the band)	18 dBi (+-0.5 dB)
Frequency	5150 – 6000 MHz
VSWR	< 2.0:1
Feed power handling	10 W
Elevation 3 dB beamwidth	14° (± 1°)
Azimuth 3 dB beamwidth	10° (± 1°)
Mutual isolation	>35 dB
Front to back (F/B ratio)	>20 dB
Nominal input impedance	50 Ohm
Polarisation	Dual antennas linear (Vertical & Horizontal)

Environmental:	
Wind Loading	160 km/h
Temperature Range	- 20° C to +70° C
Shock	40G at 10 msec
Thermal Shock	- 20° C to +70° C : 10 cycles
Water Ingress Rating	IP65 (NEMA 4X)
Mechanical:	
Dimensions (l x w x d)	364 mm x 258 mm x 98 mm
Weight	2.44 kg
Colour	Pantone Cool Grey 1C
Mounting	Stainless steel brackets for up to 50 mm poles

VSWR and Isolation

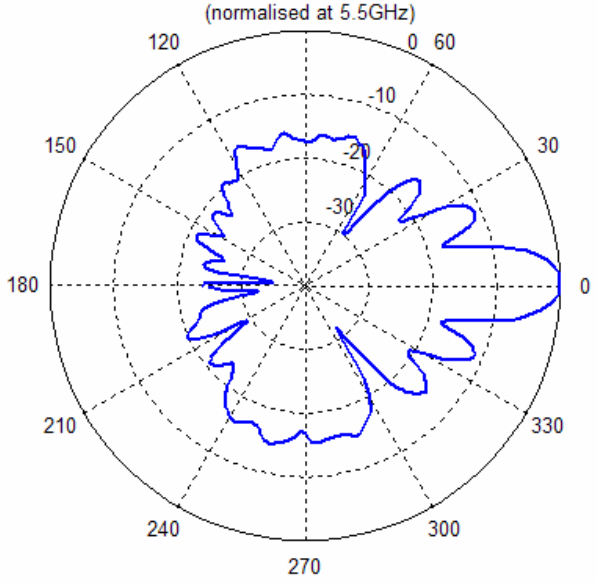


Gain

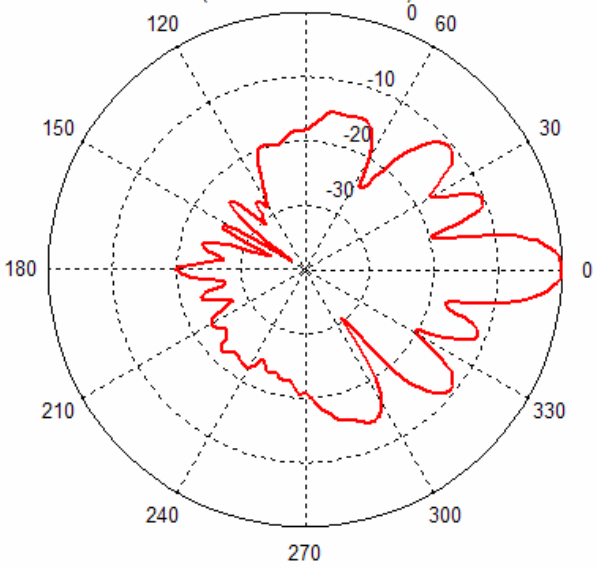


Radiation patterns

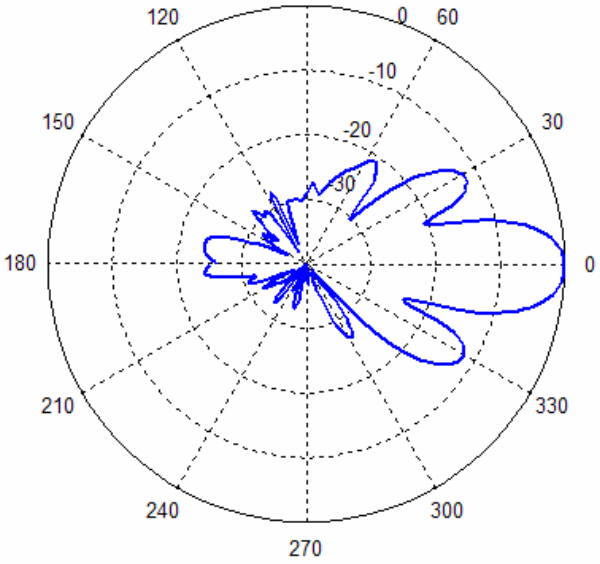
Azimuth (H-Plane) gain pattern of vertically polarised antenna
(normalised at 5.5GHz)



Azimuth (E-Plane) gain pattern of horizontally polarised antenna
(normalised at 5.5GHz)



Elevation (E-Plane) gain pattern of vertically polarised antenna
(normalised at 5.5GHz)



Elevation (H-Plane) gain pattern of horizontally polarised antenna
(normalised at 5.5GHz)