

Manufacturer: P2 Mobile Technologies Limited

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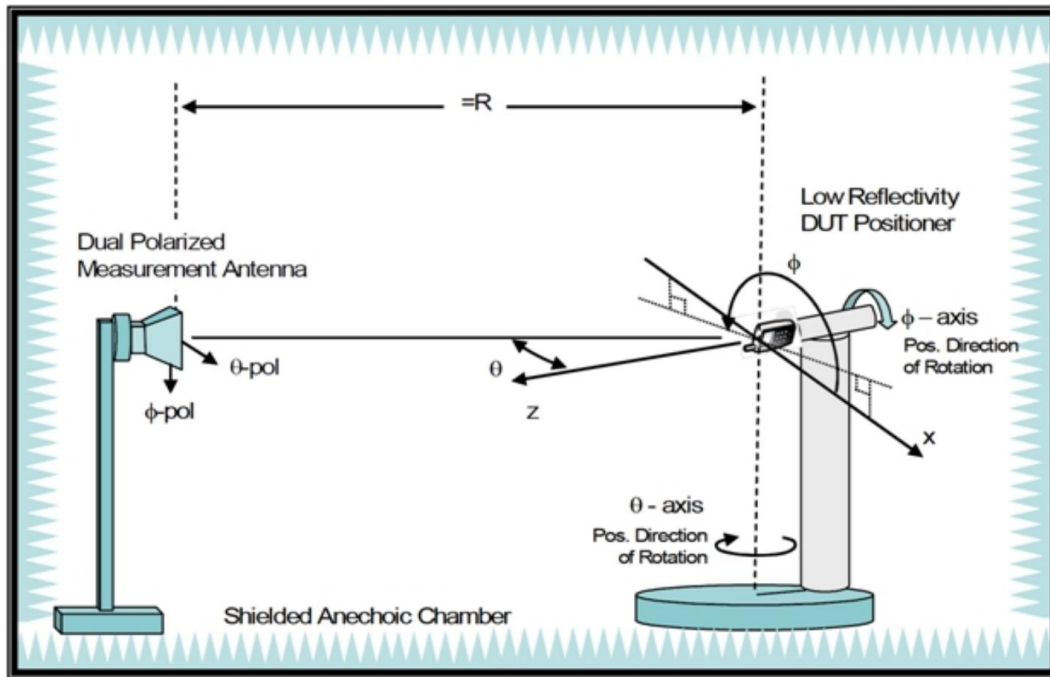
Equipment: AX51 Anywhere Network Node

Model No.: AX51

Brand Name: Anywhere Networks

1. Test Configuration

Reference to CTIA "ctia-test-plan-for-wireless-device-over-the-air-performance-ver-3-7-1



2. Test Method

The EUT set on multi-axis positioner. Measurement antenna set at phi polarization and 1.5 meter height. Port 1 of Network analyzer connect to antenna of EUT. Record S21 value every 5 degree 0 to 355 degree on Phi angle and 0 to 180 on theta angle of multi-axis positioner. Then set measurement antenna to theta polarization and repeat process. Repeat process to each antenna of EUT

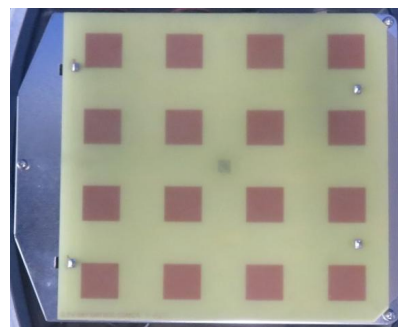
3. Summary of Test Result

Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)		Directional Gain (dBi)
		Ant 0	Ant 1	
Wi-Fi (2*2 MIMO)				
Panel Antenna	5150 ~ 5250 5250 ~ 5350 5470 ~ 5725 5725 ~ 5850	17	17	17
Remark: 1. The 17dBi panel antenna is the internal panel antenna. 2. Due to all antennas belong to Cross-Polarized Antenna, so for power and power spectral density (PSD) measurements, Directional Gain = Antenna Gain. 3. The EUT supports Cyclic Delay Diversity (CDD) mode on 802.11a/n/ac/ax.				

5GHz 17dBi 2x2 Panel Antenna

Specifications

Electrical	
Frequency Range	4.9 – 5.875 GHz
Gain	17 dBi
Polarization	Dual Pole Linear, Vertical and Horizontal Dual Slant $\pm 45^\circ$ if mounted diagonally
Horizontal Beamwidth	16° (-3 dB)
Vertical Beamwidth	16° (-3 dB)
Side Lobes Level	ETSI TS2 (Min.)
VSWR	1.7 (Max.)
Front-to-back Ratio	-20 dB (Min.), ETSI TS2
Cross Polarization	-20 dB
Isolation	-30 dB
Impedance	50 Ω
Power Handling	10 W (Max.)
Lightning Protection	DC Grounded
Environmental	
Temperature	-40 °C to +65 °C
Humidity	ETS 300 019-1-4; EN 302 085 (Annex A.1.1)
Wind Loading	200 km/hr (Survival)
Vibration	IEC 60721-3-4
Flammability	UL94
Weatherproof	IP67
Salt Fog	IEC 68-2-11
Mechanical	
Radome Material	UV Protected Polycarbonate
Reflector Material	Aluminum, Protected Through Chemical Passivation
Mounting Material	Aluminum
Weight	200 g (Antenna)
Dimensions	260 x 260 x 33 mm
Connector	2 x SMA-female
Mounting Type	Internal Install
Pole Diameter	Ø25 to 120 mm (Screws supplied are 80 mm long)
Mechanical Movement	$\pm 45^\circ$ (Azimuth); $\pm 45^\circ$ (Elevation)



Ordering Information

Part Number: GE.AN-5P17-01

5GHz 17dBi 2x2 Panel Antenna

- Mounting Kit, 2 x N-female Connector

Version: 26 Oct 2021

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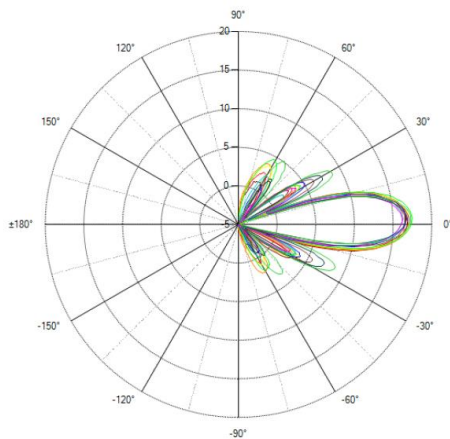
Built-in 5GHz 17dBi 2x2 Panel Antenna

For AX51 and AX52

Antenna Patterns

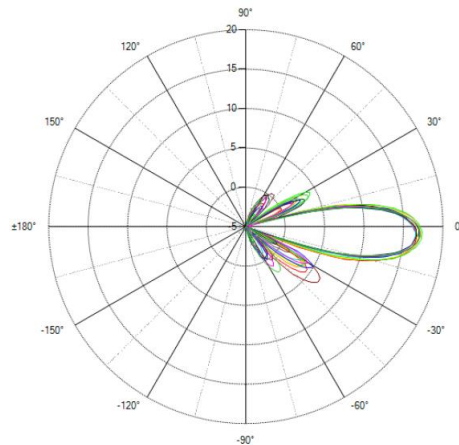
Vertical Polarization

H-Plane Co-polarization Pattern



Frequency
4.90 GHz
5.00 GHz
5.10 GHz
5.20 GHz
5.30 GHz
5.40 GHz
5.50 GHz
5.60 GHz
5.70 GHz
5.80 GHz
5.90 GHz

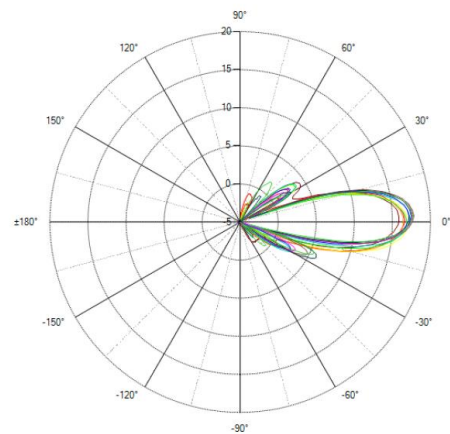
V-Plane Co-polarization Pattern



Frequency
4.90 GHz
5.00 GHz
5.10 GHz
5.20 GHz
5.30 GHz
5.40 GHz
5.50 GHz
5.60 GHz
5.70 GHz
5.80 GHz
5.90 GHz

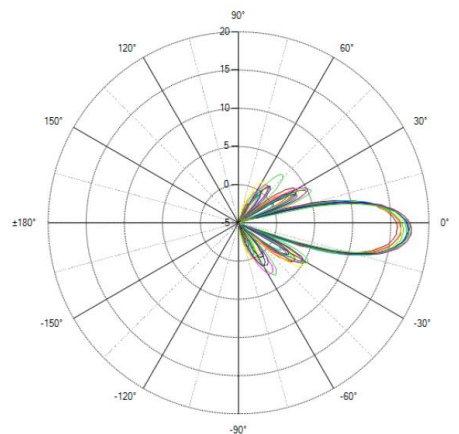
Horizontal Polarization

H-Plane Co-polarization Pattern



Frequency
4.90 GHz
5.00 GHz
5.10 GHz
5.20 GHz
5.30 GHz
5.40 GHz
5.50 GHz
5.60 GHz
5.70 GHz
5.80 GHz
5.90 GHz

V-Plane Co-polarization Pattern



Frequency
4.90 GHz
5.00 GHz
5.10 GHz
5.20 GHz
5.30 GHz
5.40 GHz
5.50 GHz
5.60 GHz
5.70 GHz
5.80 GHz
5.90 GHz

Version: 18 Apr 2023

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