Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

2J 4G-5G WiFi Ultraband 2x2 MIMO Adhesive Antenna, 617 to 5925 MHz

SKU
ANT-2J-00014
MPN
2J6983PA

Description

The 2J 4G-5G WiFi Ultraband 2x2 MIMO Adhesive Antenna (SKU: ANT-2J-00014), developed by 2J, operates within a frequency range of 617 to 5925 MHz. This adhesive patch antenna, measuring 89 x 76 x 30 mm and made from ABS plastic, is designed for robust performance with an IP67 ingress protection rating, making it suitable for harsh environments. It supports an operating temperature range from -40 °C to 85 °C and complies with RoHS standards.

Featuring two input ports, this antenna provides 2x2 MIMO capabilities with dual RF connections. Each element functions with a 50 Ω impedance and offers distinct performance specifications across multiple frequency ranges. For Cable 1, it supports up to 35 W of input power, while Cable 2 supports up to 25 W. Both are linear polarised and feature SMA Male connectors with a 300 mm L-100 cable.

Cable 1 delivers peak gains of 2.1 dBi to 2.8 dBi, depending on the frequency band, with a VSWR of less than 3.1...

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2J

2J is a worldwide supplier of antenna solutions for Automotive, Marine, Telematic, Automation and M2M markets. 2J utilise a plethora of modern engineering tools, from network analysers and anechoic chambers, to simulation software and 3D printers. These tools help reduce design phases, and enable us to react to customers' needs promptly and efficiently.

Over the past decade, 2J has established ...

RF Specification

Cable 1: 5GNR

Start Frequency
617 MHz
Stop Frequency
5925 MHz
Max. Input Power
35 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	L-100	3000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Avg. Gain	Efficiency

617 MHz	960 MHz	2.1 dBi	> 7 dB	< 3.1:1	-3.3 dBi	50%
1427 MHz	2690 MHz	6.3 dBi	> 11.2 dB	< 2.1:1	-2.5 dBi	56%
3300 MHz	5000 MHz	3.7 dBi	> 7.1 dB	< 3.1:1	-5.8 dBi	30%
5150 MHz	5925 MHz	2.8 dBi	> 6.4 dB	< 3:1	-6.1 dBi	25%

Cable 2: 5GNR

Start Frequency
617 MHz
Stop Frequency
5925 MHz
Max. Input Power
25 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	L-100	3000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Avg. Gain	Efficiency
617 MHz	960 MHz	1.6 dBi	> 7.3 dB	< 3.1:1	-3.2 dBi	51%
1427 MHz	2690 MHz	6.3 dBi	> 10.8 dB	< 2.1:1	-2.3 dBi	59%
3300 MHz	5000 MHz	5.1 dBi	> 7.6 dB	< 2.9:1	-4.4 dBi	38%
5150 MHz	5925 MHz	4.4 dBi	> 8.4 dB	< 2.3:1	-4.4 dBi	37%

Physical Specification

Subtype
Adhesive Patch
Input Ports
2
MIMO
2x2 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C

Dimensions
89 x 76 x 30
Ingress Protection
IP67
Materials
ABS Plastic
Mounting
Adhesive
Compliance/Certifications
RoHS