

# 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  $\Omega$  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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# RF Specification

## Cable 1: 5GNR

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

### 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	Polarisation:	Linear
Stop Frequency:	5925 MHz	Input Impedance:	50
Max. Input Power:	25 W		

### 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	Dimensions:	89 x 76 x 30
Input Ports:	2	Ingress Protection:	IP67
MIMO:	2x2 MIMO	Materials:	ABS Plastic
Min. Operating Temperature:	-40 °C	Mounting:	Adhesive
Max. Operating Temperature:	85 °C	Compliance/Certifications:	RoHS

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