

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

SKU: ANT-2J-00024

MPN: 2J7B83BA

## Description

The 2J 4G-5G WiFi Ultraband 2x2 MIMO Lightweight Stud Antenna (ANT-2J-00024) is designed for high-performance wireless applications across multiple industries. Covering a broad frequency range from 617 to 5925 MHz, this antenna supports seamless connectivity for automotive, marine, telematics, automation, and M2M applications. Its robust ASA plastic construction, combined with an IP67 ingress protection rating, ensures durability in challenging environments.

This 2x2 MIMO antenna features two input ports, providing dual RF connections that enhance data throughput and reliability. The antenna is linear polarised and has a 50  $\Omega$  impedance, supporting up to 35 W of input power. With a temperature operating range from -40 °C to 85 °C, it is suitable for diverse climatic conditions.

2J's antenna utilises advanced design tools and testing facilities, ensuring high-quality performance and compliance with RoHS standards. Its flexible design...

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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 1-2: 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
2	SMA Male	Straight	L-195	3000 mm

## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Avg. Gain	Efficiency
617 MHz	960 MHz	0.2 dBi	> 6.8 dB	< 3.1:1	360°	-3.9 dBi	42%
1427 MHz	2690 MHz	3.7 dBi	> 16.5 dB	< 1.5:1	360°	-2.5 dBi	57%
3300 MHz	5000 MHz	3.9 dBi	> 10.4 dB	< 2.1:1	360°	-3.5 dBi	45%
5150 MHz	5925 MHz	4.3 dBi	> 14.3 dB	< 1.5:1	360°	-3.9 dBi	41%

# Physical Specification

Subtype:	Fin / Stud / Combo	Dimensions:	96 x H 130
Input Ports:	2	Ingress Protection:	IP67
MIMO:	2x2 MIMO	Materials:	ASA Plastic
Min. Operating Temperature:	-40 °C	Mounting:	Stud / Bulkhead / Panel
Max. Operating Temperature:	85 °C	Compliance/Certifications:	RoHS

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