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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 Ω 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 highquality performance and compliance with RoHS standards. Its flexible design...

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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 1-2: 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

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

Input Ports

2

MIMO

2x2 MIMO

Min. Operating Temperature

-40 °C

Max. Operating Temperature

85°C

Dimensions

96 x H 130

Ingress Protection

IP67

Materials

ASA Plastic

Mounting

Stud / Bulkhead / Panel

Compliance/Certifications

RoHS

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