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2J 4G-5G WiFi Ultraband 4x4 MIMO Stud Antenna, 617 to 5925 MHz

SKU ANT-2J-00021 MPN 2J7183BC

Description

The 2J 4G-5G WiFi Ultraband 4x4 MIMO Stud Antenna (SKU: ANT-2J-00021) is a versatile, high-performance solution designed for a wide frequency range from 617 to 5925 MHz. Featuring a compact design of 96 x 130 mm, it is ideal for diverse applications in sectors such as automotive, marine, telematics, automation, and M2M systems. This antenna offers four RF connections, providing robust 4x4 MIMO capabilities, and is equipped with IP67 ingress protection, ensuring reliable operation in challenging environments.

Engineered by 2J, a leader in antenna solutions based in Slovakia, this antenna is compliant with ISO 9001 and RoHS standards, attesting to its high-quality manufacturing. With a 50 Ω impedance and linear polarisation, each antenna element supports up to 35 W of input power. Its SMA Male interfaces and 3000 mm L-195 cables ensure easy integration into existing systems.

The antenna's RF performance, optimised across multiple frequency...

Read More





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-195 3000 mm

Frequency Test Data

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

617 MHz	960 MHz	1.3 dBi	> 5.5 dB	< 3.7:1 -5.1 dBi	31%
1427 MHz	2690 MHz	3.4 dBi	> 12.2 dB	< 2:1 -3.9 dBi	42%
3300 MHz	5000 MHz	4.7 dBi	> 15.2 dB	< 1.5:1 -3.8 dBi	42%
5150 MHz	5925 MHz	4 dBi	> 14.2 dB	< 1.6:1 -4.4 dBi	37%

Cable 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

1 SMA Male Straight L-195 3000 mm

Frequency Test Data

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

617 MHz	960 MHz	1.2 dBi	> 5.6 dB	< 3.7:1 -5.1 dBi	31%
1427 MHz	2690 MHz	3.6 dBi	> 12.7 dB	< 1.9:1 -3.9 dBi	41%
3300 MHz	5000 MHz	4.6 dBi	> 15.3 dB	< 1.5:1 -3.8 dBi	42%
5150 MHz	5925 MHz	3.2 dBi	> 16 dB	< 1.5:1 -4.8 dBi	33%

Cable 3: 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-195 3000 mm

Frequency Test Data

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

617 MHz 960 MHz 1.3 dBi > 5.4 dB< 3.7:1 -5 dBi 32% 2690 MHz 3.8 dBi > 12.9 dB < 1.8:1 -3.8 dBi 42% 1427 MHz 3300 MHz 5000 MHz 4.5 dBi > 16.7 dB< 1.4:1 -4 dBi 40% 5150 MHz 5925 MHz 4.6 dBi > 12.4 dB < 1.8:1 -4.2 dBi 39%

Cable 4: 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-195 3000 mm

Frequency Test Data

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

617 MHz	960 MHz	1.6 dBi	> 5.7 dB	< 3.5:1 -5.1 dBi	31%
1427 MHz	2690 MHz	3.4 dBi	> 12.8 dB	< 1.8:1 -3.9 dBi	42%
3300 MHz	5000 MHz	4.6 dBi	> 16.8 dB	< 1.5:1 -3.8 dBi	43%
5150 MHz	5925 MHz	3.9 dBi	> 15.4 dB	< 1.5:1 -4.6 dBi	35%

Physical Specification

Subtype

Fin / Stud / Combo

Input Ports

4

MIMO

4x4 MIMO

Min. Operating Temperature

-40 °C

Max. Operating Temperature

85 °C

Dimensions

96 x 130

Ingress Protection

IP67

Materials

ASA Plastic

Mounting

Stud / Bulkhead / Panel

Compliance/Certifications

ISO 9001 Quality Management

RoHS

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