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 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 high-quality performance and compliance with RoHS standards. Its flexible design...

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 1-2: 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

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual

property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

