

# 2J Dual-Band WiFi-6E Flexible Embedded Adhesive Antenna, 2410 to 7125 MHz

SKU: ANT-2J-00028

MPN: 2JF0102PA

## Description

The 2J Dual-Band WiFi-6E Flexible Embedded Adhesive Antenna (SKU: ANT-2J-00028) offers advanced connectivity for a range of applications in automotive, telematics, and M2M markets. Designed by 2J, a leading Slovakian antenna manufacturer, this PCB/Surface Mount antenna provides robust performance across the 2410 MHz to 7125 MHz frequency range, making it ideal for WiFi 6E networks.

With a compact size of 67.5 x 25.0 x 0.2 mm and the ability to operate in temperatures from -40 °C to 85 °C, it is well-suited for diverse environments. The antenna's linear polarisation and 50  $\Omega$  impedance ensure optimal signal integrity, supporting up to 25 W of input power. Featuring a single RF connection via a U.FL Female interface with a 100 mm cable, it simplifies integration into various systems.

This antenna excels in providing consistent performance with peak gains of up to 4.7 dBi and radiated efficiency reaching 71% across its operating bands. Its...

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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

## WiFi 6E

Start Frequency:	2410 MHz	Polarisation:	Linear
Stop Frequency:	7125 MHz	Input Impedance:	50
Max. Input Power:	25 W		

## RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	U.FL Female	Straight	1.37 mm Mini-Coax	100 mm

## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Avg. Gain	Efficiency
2410 MHz	2490 MHz	2 dBi	> 22.1 dB	< 1.21:1	360°	-1.5 dBi	71%
4920 MHz	5925 MHz	4.7 dBi	> 14.6 dB	< 1.51:1	360°	-1.7 dBi	68%
5925 MHz	7125 MHz	3.7 dBi	> 8.8 dB	< 2.21:1	360°	-2.3 dBi	59%

# Physical Specification

Subtype:	Adhesive Patch	Dimensions:	67.5 x 25.0 x 0.2
Input Ports:	1	Materials:	Plastic
MIMO:	1x1 SISO	Mounting:	Adhesive
Min. Operating Temperature:	-40 °C	Compliance/Certifications:	RoHS
Max. Operating Temperature:	85 °C		

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