

FLEXMIMO 6E ANTENNA SERIES ENABLING THE HIGHEST DATA-RATE WI-FI FOR MIMO APPLICATIONS



In 2020 the FCC announced the allocation of a new frequency spectrum for Wi-Fi, extending frequencies up to 7.125 GHz. Our FlexMIMO, the world's first Flexible PIFA MIMO antenna, is now available as the **FlexMIMO 6E**. It supports the full Wi-Fi spectrum of 2400-2500, 4900-5925, and 5925-7125 MHz frequency bands, an ideal solution for MIMO Wi-Fi applications with future-proofing for emerging 6E frequencies.

Designed for rapid integration of a 2 antenna MIMO system into space-constrained housings, the flexible, adhesive backed antennas are available with MHF1 or MHF4L connectors, providing multiple installation solutions for IoT manufacturers. The patented FlexMIMO technology provides consistent performance across all three Wi-Fi bands for a solid and reliable connection at all times.

- **Full Coverage** – Operates over all three Wi-Fi bands.
- **Performance** – Two integrated elements delivering exceptional performance across all bands in MIMO applications.
- **Versatile** – Compact design using patented flexible PIFA antenna structure allows for use on flat and curved surfaces.
- **Future-Proofed** – Coverage for emerging Wi-Fi 6E applications.
- **Reliable** – PIFA technology is easy to integrate into IoT devices and less likely to detune in proximity of metal or a human body.
- **Quality** – Designed and built to exacting specifications.
- US Patent # 10.763.578

ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	2400-2500	4900-6000	6000-7125
Peak Gain (dBi)	2.2	3.8	3.3
VSWR Port 1 (Max)	2.5:1	2.5:1	2.5:1
VSWR Port 2 (Max)	2.5:1	2.5:1	2.5:1
Nominal Impedance (Ohms)	50		
Polarization	Linear H/V for each radiator		
Antenna Type	Flexible Planar Inverted-F (PIFA) MIMO		
Radiation Pattern	Omnidirectional		
Typical Efficiency (%)	64.7%	62.3%	52.2%

MECHANICAL SPECIFICATIONS

Dimensions, Max – mm (inches)	39.5 x 39.5 x 4.7 (1.56 x 1.56 x .19)
Connector Options	MHF1 (U.FL), MHF4L

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)
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APPLICATION AREAS



Smart Metering and Utilities



Industrial IoT



Agricultural and Rural (Farm Sense and Control)



Quick Service Restaurants



Smart Lockers



Medical Devices

Note: This product is currently in development, and this product brief is preliminary. All data and specifications are subject to change.

ORDERING INFORMATION

PART NUMBER	EXPOSED CABLE LENGTH/DIAMETER	CONNECTOR
EFD2471A3S-10MHF1	100 mm/1.13 mm	MHF1
EFD2471A3S-10MH4L	100 mm/1.13 mm	MHF4L