



# Ultra-Wideband 5G Flex Antenna Covering 600MHz to 8GHz

## FXUB85

### Ultra-wideband flexible PCB antenna designed for next generation connectivity

- Ultra-wide bandwidth, covering all 5G/4G applications
- 600MHz – 8GHz operating frequency
- Covers full Wi-Fi spectrum including Wi-Fi 6
- Small form factor
- High efficiency across all bands
- Excellent radiation pattern quality
- Band71/600MHz ready

Dimensions: 165 x 21 x 0.3 mm



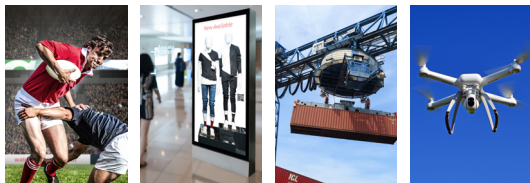
**Industry first -**  
A Flex PCB antenna  
with the widest  
bandwidth of any  
flex antenna on the  
market

### Description

The Taoglas® **Pylon FXUB85** is an ultra-wideband flexible PCB antenna designed for next generation connectivity. The Pylon provides best-in-class performance for all 5G sub 6 GHz (FR1) and Wi-Fi 6 applications with a typical efficiency of more than 70% across both low and high frequency bands. Covering the entire spectrum from 600 MHz – 8 GHz, the Pylon allows for coverage in the 3.5 GHz CBRS bands, the 1400MHz 5G NR bands 74/75/76, and the 3.6-4.6 GHz Japan 5G NR bands 77/78/79. It maintains excellent performance in all the traditional 4G bands, including 4G band 71 and allows for fallback to 3G/2G bands where necessary. The Pylon is an ideal choice for any device maker that desires ease of integration combined with affordable cost without compromising performance. Cable and connector are fully customizable.

### Typical Applications:

- IoT and Connected Devices
- UAVs and Autonomous Vehicles
- Precision Tracking
- Industrial Robotics and Factory Automation
- Field and Body Sensors and Wearables
- Digital Signage



### Electrical Specifications

Band	Frequency (MHz)	Return Loss (dB)	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)
<b>5G NR/4G</b> Band 5,8,12,13,14,17,18,20,26,27,28,29,71	617~960	-8	69	-1.7	2.1
<b>5G NR/4G</b> Band 21,32,74,75,76	1427~1518	-7	62	-2.1	2.4
<b>4G/3G</b> Band 1,2,3,4,9,23,25,35,39,66	1710~2200	-6	65	-1.9	1.9
<b>4G/3G</b> Band 7,30,38,40,41	2300~2690	-8	62	-2.1	1.8
<b>5G NR/4G</b> Band 22,42,43,48,77,78,79	3300~5000	-15	80	-1	5.3
<b>LTE5200/ Wi-Fi 5800</b>	5150~5925	-11	72	-1.4	5.6
<b>Wi-Fi 6</b>	5925~7125	-8	59	-2.3	4.5



For **FXUB85 Datasheet** visit: <https://www.taoglas.com/datasheets/FXUB85.pdf>

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