RUN mXTEND™ (FR01-S4-224)

GSM, UMTS, LTE (698 – 960MHz, 1710 – 2690MHz and 3400 – 3800MHz)

Fractus Antennas specializes in enabling effective mobile communications. Using Fractus Antennas technology, we design and manufacture optimized antennas to make your wireless devices more competitive. Our mission is to help our clients develop innovative products and accelerate their time to market through our expertise in antenna design, testing and manufacturing.

The RUN mXTEND™ antenna booster has been specifically designed for providing multiband performance in wireless devices (in particular in mobile devices), enabling worldwide coverage by allowing operation in the communication standards GSM850, GSM900, GSM1800/DCS, GSM1900/PCS, UMTS, LTE700, LTE800, LTE850, LTE900, LTE1700, LTE1800, LTE1900, LTE2000, LTE2100, LTE2300, LTE2500, LTE2600, LTE3500 and LTE3700.
The RUN mXTEND™ antenna booster is built on glass epoxy substrate.

Bands: LTE 1-10, LTE 12-20, LTE 22-23, LTE 25-30, LTE 33-44.

Product Benefits

- Small size
- Cost-effective
- High efficiency
- Easy to use (pick and place)
- Multiband behavior (worldwide standards compatible)
- Off-the-Shelf
- Standard Product (no customization is required)

12.0 mm x 3.0 mm x 2.4 mm (image larger than real size)

PAT. US 8,203,492, US 8,237,615

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Evaluation Boards

Class	Frequency Regions	Frequency range	Part Number	Page
2 Ports	3	698 – 960 MHz & 1710 – 2690 MHz & 3400 – 3800 MHz	EB_FR01-S4-224-UFL3R-2P	2

2 port solution – 3 frequency regions

Technical features	698 – 960 MHz	1710 – 2690 MHz	3400 – 3800 MHz
Average Efficiency	> 60.0 %	> 75.0 %	> 65.0 %
Peak Gain	1.6 dBi	3.7 dBi	3.1 dBi
VSWR	< 3:1		
Radiation Pattern	Omnidirectional		
Polarization	Linear		
Weight (approx.)	0.19 g		
Temperature	-40 to + 85 ºC		
Impedance	50 Ω		
Dimensions (L x W x H)	12.0 mm x 3.0 mm x 2.4 mm		

Technical features. Measures from the evaluation board with UFL cables (131 mm x 60 mm x 1 mm).

See pictures of the evaluation boards, matching network configuration and graphs of the specs in the User Manual.

For additional information, please visit www.fractusantennas.com or contact info@fractusantennas.com.

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