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Your innovation. Accelerated.

ALL mXTENDTM (NN02-220)

ALL mXTEND™ (NN02-220)

The ALL mXTEND™ chip antenna component has been specifically designed for providing multiband performance in mobile applications, such as LTE (698 – 960MHz and 1710 – 2690MHz) that enables worldwide coverage. Among other applications, it is used for designing Smart Meters and Sharkfin devices able to operate in full mobile communication standards.



Product Benefits

- **High Performance:** A global cellular antenna for IoT and mobile devices with a high performance in the subGHz frequency range.
- **Multiband:** All cellular bands covered: 2G/3G/4G/5G and NB-IoT/LTE-M applications in a 24.0 mm x 12.0 mm x 2.0 mm antenna package.
- Global reach: Through multiband performance (worldwide standards compatible).
- Reliability: Off-the-Shelf standard product, no antenna part customization (electronic optimization).
- **Use cases:** Smart metering, smart city sensors, automotive.

Operation Bands Summary

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

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1. AVAILABLE SOLUTIONS SUMMARY

Class	Frequency Regions	Frequency range	More detailed info
1 Port	2	698 – 960 MHz & 1710 – 2690 MHz	CELLULAR MOBILE
1 Port	2	698 – 960 MHz & 1710 – 2690 MHz	CELLULAR FOR SMART METERS
1 Port	2	698 – 960 MHz & 1710 – 2690 MHz	CELLULAR FOR SHARKFIN AUTOMOTIVE

2. DETAILED AVAILABLE SOLUTIONS

2.1. LTE SOLUTION

Technical features	698 – 960 MHz	1710 – 2690 MHz
Average Efficiency	> 55 %	> 75 %
Peak Gain	2.3 dBi	3.1 dBi
VSWR	< 3:1	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Weight (approx.)	1.23 g	
Temperature	-40 to +125 °C	
Impedance	50 Ω	
Dimensions (L x W x H)	24.0 mm x 12.0 mm x 2.0 mm	

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

2.2 LTE FOR SMART METERS SOLUTION

Technical features	698 – 960 MHz	1710 – 2690 MHz
Average Efficiency	> 65 %	> 70 %
Peak Gain	2.2 dBi	0.1 dBi
VSWR	< 3:1	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Weight (approx.)	1.23 g	
Temperature	-40 to +125 °C	
Impedance	50 Ω	
Dimensions (L x W x H)	24.0 mm x 12.0 mm x 2.0 mm	

Technical features. Measures from the evaluation board (145 mm x 130 mm x 1 mm).

Last Update: April 2021



2.3 LTE FOR SHARKFIN AUTOMOTIVE SOLUTION

3 Technical features	698 – 960 MHz	1710 – 2690 MHz
Average Efficiency	> 35 %	> 60 %
Peak Gain	1.8 dBi	7.1 dBi
VSWR	< 4.5:1	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Weight (approx.)	1.23 g	
Temperature	-40 to +125 °C	
Impedance	50 Ω	
Dimensions (L x W x H)	24.0 mm x 12.0 mm x 2.0 mm	

Technical features. Measures from the evaluation board (40 mm x 40 mm x 1 mm) mounted at a centre of metallic ground plane of 600 mm x 600 mm.

If you need assistance to design your matching network, please contact support@ignion.io

You can also try our free of charge¹ NN Wireless Fast Track service you will receive a tailored antenna design approach for free in 24h¹. discover the feasibility of your next wireless project including the antenna!

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¹ See terms and conditions for a free NN Wireless Fast-Track service in 24h at: https://www.ignion.io/fast-track-project/

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