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# BAR mXTEND<sup>™</sup> (NN02-232)

DATASHEET

## BAR mXTEND<sup>™</sup> (NN02-232)

The BAR mXTEND<sup>™</sup> antenna booster is a versatile antenna oriented to provide a cost-effective performance in **any IoT environment**. This antenna booster has been specifically designed for providing multiband performance in wireless devices for 2G/3G/4G bands.



### Product Benefits

- **Top performance:** Top multiband IoT performance in an ultracompact form factor: 10.0 mm x 3.2 mm x 3.2 mm.
- **Multiband & Multiport:** 2G/3G/4G/5G, LTE-M and NB-IoT applications.
- **Global reach:** Through multiband performance (compatible with multiple regional standards).
- **Reliability:** Off-the-Shelf standard product, no antenna part customization (electronic optimization).
- **Use cases:** Small tracking devices, IoT sensors and IoT cellular/ISM modules, mobile devices.

### Operation Bands Summary

- GSM, UMTS, LTE (824 – 960MHz and 1710 – 2170MHz).

## 1. AVAILABLE SOLUTION SUMMARY

Class	Frequency Regions	Frequency range	More detailed info
1 Port	2	824 – 960 MHz & 1710 – 2170 MHz	<b><u>CELLULAR MOBILE</u></b>

## 2. CELLULAR SOLUTION

Technical features	824 – 960 MHz	1710 – 2170 MHz
Average Efficiency	> 60 %	> 75 %
Peak Gain	1.3 dBi	2.1 dBi
VSWR	< 3:1	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Weight (approx.)	0.21 g	
Temperature	-40 to +125 °C	
Impedance	50 Ω	
Dimensions (L x W x H)	10.0 mm x 3.2 mm x 3.2 mm	

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

If you need assistance to design your matching network, please contact [support@ignion.io](mailto:support@ignion.io)

You can also try our free of charge<sup>1</sup> **NN Wireless Fast Track service** you will receive a tailored antenna design approach for free in 24h<sup>1</sup>. discover the feasibility of your next wireless project including the antenna!

<sup>1</sup> 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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Contact:  
[support@ignion.io](mailto:support@ignion.io)  
+34 935 660 710

#### **Barcelona**

Av. Alcalde Barnils, 64-68 Modul C, 3a pl.  
Sant Cugat del Vallés  
08174 Barcelona  
Spain

#### **Shanghai**

Shanghai Bund Centre  
18/F Bund Centre, 222 Yan'an Road East,  
Huangpu District  
Shanghai, 200002  
China

#### **New Dehli**

New Delhi, Red Fort Capital Parsvnath Towers  
Bhai Veer Singh Marg, Gole Market,  
New Delhi, 110001  
India

#### **Tampa**

8875 Hidden River Parkway  
Suite 300  
Tampa, FL 33637  
USA