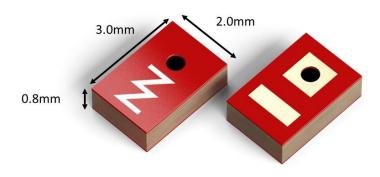
ignion^w

Your innovation. Accelerated.

NANO mXTENDTM (NN02-101)

NANO mXTEND™ (NN02-101)

The NANO mXTEND™ antenna booster is **the smallest Virtual Antenna™ ever**. It's the product of choice when you're looking for a reliable and repetitive antenna solution for Bluetooth and Wi-Fi and you have a strictly limited device space.



Product Benefits

- Smallest clearance: 5mm x 5mm.
- Miniature: Smallest Virtual Antenna™ form factor of 3.0 mm x 2.0 mm x 0.8 mm.
- Versatile: Can be mounted either on the device corner or on the center edge.
- **Reliability**: Off-the-Shelf standard product, no antenna part customization (electronic optimization).
- Use cases: smart home, tracking devices, wearables, gaming devices, IoT modules.

Operation Bands Summary

Bluetooth and Wi-Fi (2400 – 2500MHz)

Last Update: May 2021

3



1. AVAILABLE SOLUTIONS SUMMARY

Class	Frequency Regions	Frequency range	More detailed info
1 Port	1	2400 MHz to 2500 MHz	BLUETOOTH/Wi-Fi

2. DETAILED AVAILABLE SOLUTIONS

2.1 BLUETOOTH AND Wi-Fi SOLUTION

Technical features	2400 MHz – 2500 MHz	
Average Efficiency	>70 %	
Peak Gain	2.4 dBi	
VSWR	< 2.5:1	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Weight (approx.)	0.01 g.	
Temperature	-40 to +125 °C	
Impedance	50 Ω	
Dimensions (L x W x H)	3.0 mm x 2.0 mm x 0.8 mm	

Technical features. Measurements from the evaluation board (80 mm x 40 mm x 1 mm).

If you need assistance in designing your matching network, please contact support@ignion.io

You can also try our free of charge¹ <u>Fast Track online tool</u> where you can receive a tailored antenna design approach for free in 24h¹. Find out more about the feasibility, including the antenna feasibility, of your next wireless project now!

Last Update: May 2021

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

ignion^w

Contact: 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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Ignion:

EB_NN02-101-c-BT NN02-101