

ignion[™]

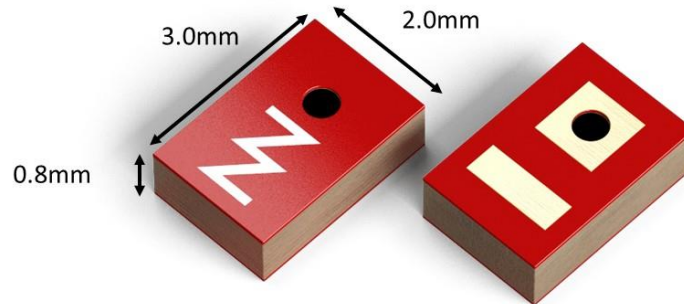
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NANO mXTEND[™] (NN02-101)

DATASHEET

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)

1. AVAILABLE SOLUTIONS SUMMARY

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

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 [Fast Track online tool](#) 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!

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

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