

ignion<sup>™</sup>

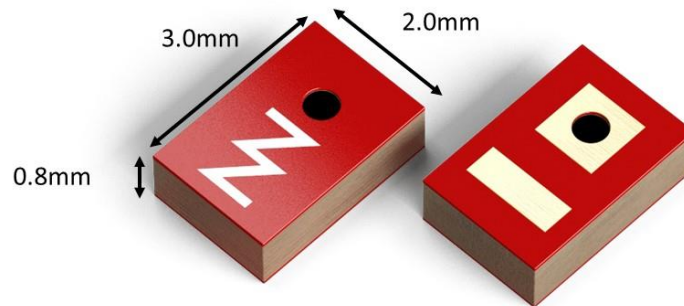
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# NANO mXTEND<sup>™</sup> (NN02-101)

DATASHEET

## NANO mXTEND<sup>™</sup> (NN02-101)

The NANO mXTEND<sup>™</sup> antenna booster is **the smallest Virtual Antenna<sup>™</sup> 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<sup>™</sup> 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 | <a href="#"><b>BLUETOOTH/Wi-Fi</b></a> |

## 2. DETAILED AVAILABLE SOLUTIONS

### 2.1 BLUETOOTH AND Wi-Fi SOLUTION

| Technical features            | 2400 MHz – 2500 MHz      |
|-------------------------------|--------------------------|
| <b>Average Efficiency</b>     | >70 %                    |
| <b>Peak Gain</b>              | 2.4 dBi                  |
| <b>VSWR</b>                   | < 2.5:1                  |
| <b>Radiation Pattern</b>      | Omnidirectional          |
| <b>Polarization</b>           | Linear                   |
| <b>Weight (approx.)</b>       | 0.01 g.                  |
| <b>Temperature</b>            | -40 to +125 °C           |
| <b>Impedance</b>              | 50 Ω                     |
| <b>Dimensions (L x W x H)</b> | 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\*\*](mailto:support@ignion.io)

You can also try our free of charge<sup>1</sup> [\*\*Fast Track online tool\*\*](#) where you can receive a tailored antenna design approach for free in 24h<sup>1</sup>. Find out more about the feasibility, including the antenna feasibility, of your next wireless project now!

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



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