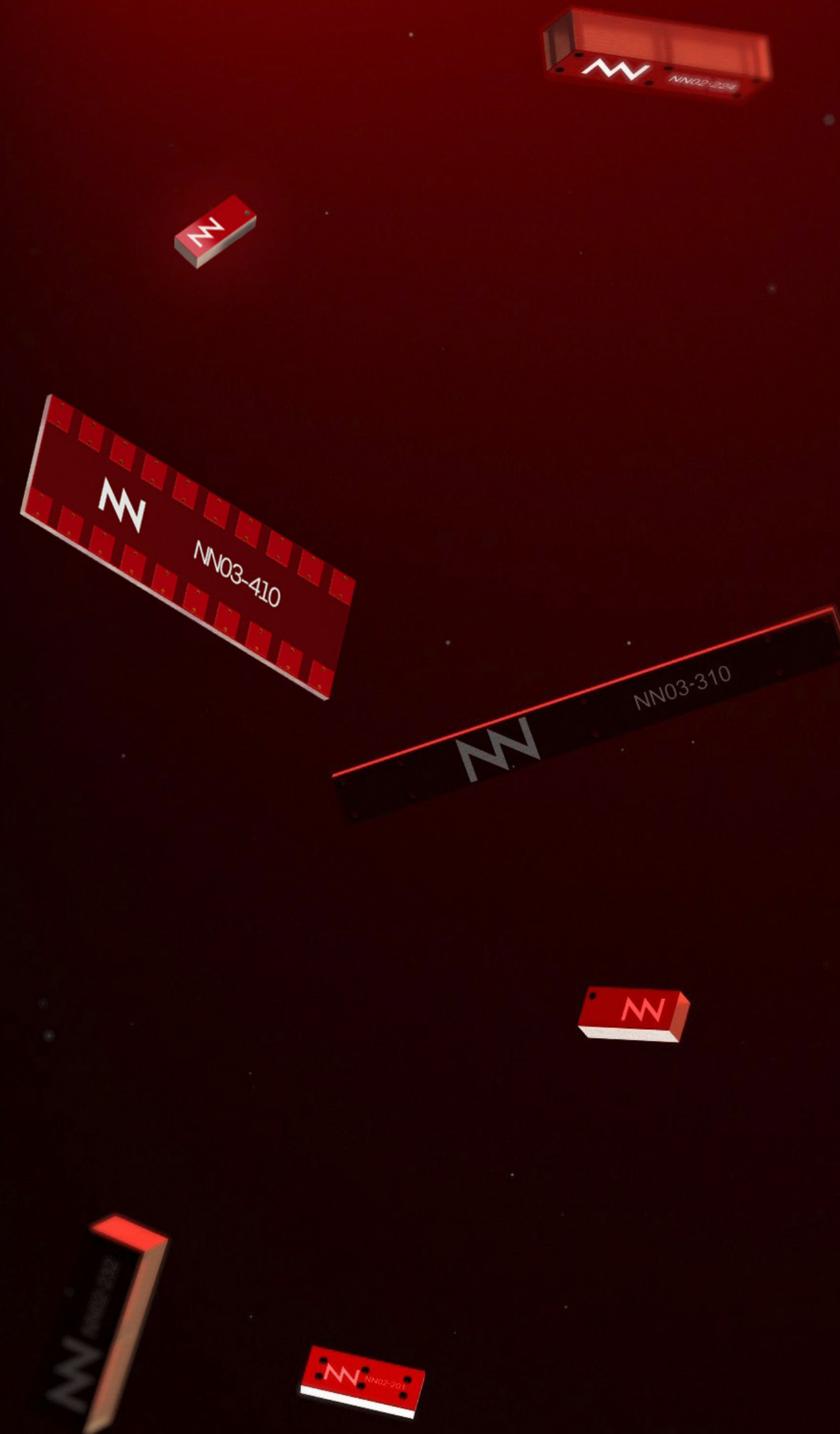
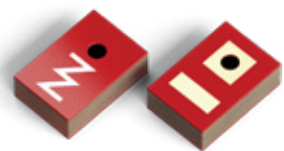
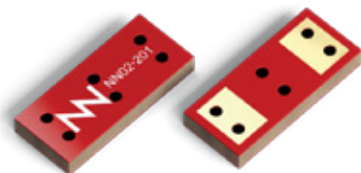


Product Portfolio





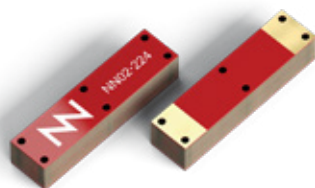
NANO
mXTEND™



ONE
mXTEND™



DUO
mXTEND™



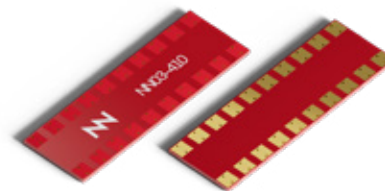
RUN
mXTEND™



TRIO
mXTEND™



ALL
mXTEND™



OMNIA
mXTEND™

Part Number	NN02-101	NN02-201	NN03-320	NN02-224	NN03-310	NN02-220	NN03-410
Dimensions (L x W x H) mm	3.0 x 2.0 x 0.8	7.0 x 3.0 x 1.0	7.0 x 3.0 x 2.0	12.0 x 3.0 x 2.4	30.0 x 3.0 x 1.0	24.0 x 12.0 x 2.0	44.1 x 14.6 x 1.0
Number of Antenna Ports	1 port solution	1 port solution	1-2 port solution	1 port solution	1-3 port solution	1 port solution	3 port solution
Operating Range (MHz)	2400 – 10600	800 - 10600	1500 – 10600	698 - 8000	400 - 8000	400 - 8000	400 - 8000
Best for (MHz)	2400 - 8500	824 - 8000	1561 – 8500	824 - 5875	698 - 3800	698 - 2690	617 - 3800
Weight (g) aprox.	0.01	0.02	0.11	0.19	0.25	1.23	1.23
Reference Design Frequencies (MHz)	2400 - 2500	3300 - 5000	1561 - 1606 2400 - 2500	824 - 960 1710 - 2690	698 - 960 1710 - 2690	698 - 960 1710 - 2690	790 – 960 1561– 1606 2400 – 2500
Average Efficiency (%)	>65	>70	>45 >50	>65 >70	>55 >65	>55 >75	>55 >75 >65
Efficiency Range (%) (min - max)	60.1 - 77.3	64.0 - 86.3	44.6 - 54.6 47.2 - 57.7	54.3 - 78.6 57.2 - 86.0	48.5 - 64.3 52.9 - 80.2	40.2 - 71.1 71.6 - 90.3	49.5 – 63.1 80.2 – 81.4 68.0 – 71.6
Peak Gain (dBi)	1.1	4.1	-1.1 -0.9	2.8 1.8	1.1 2.4	2.3 3.1	0.9 4.0 3.5
VSWR	<2.5:1	<2.5:1	<3:1	<3:1	<3:1	<3:1	< 2.61:1 < 1.5:1 < 2.0:1
Ref. Design Part Number	EB_NN02-101-m-BT	EB_NN02-201-5G	EB_NN03-320-m-GNSS-BT	EB_NN02-224-1B-2RJ-1P	EB_NN03-310-M	EB_NN02-220-1B-2R-1P	EB_NN03-410

Examples of wireless
service applications

- BLUETOOTH
- WI-FI
- UWB

- 2G3G4G5G
- NB-IOTLTE CAT-M
- CELLULAR IOTUWB
- WI-FI DUAL BAND
- WI-FI 5WI-FI 6
- WI-FI 6ECBRS
- WI-FIGNSS

- 5G
- GNSSBLUETOOTH
- WI-FI DUAL BAND
- UWB CBRS
- WI-FI 5WI-FI 6

- 2G3G4G5G
- NB-IOTLTE CAT-M
- LORASIGFOXZIGBEE
- GNSSWI-SUNISM
- CBRSCELLULAR IOT
- SIDEWALKMATTER
- Z-WAVETHREAD
- WI-FI 5WI-FI 6
- WI-FI DUAL BAND

- 2G3G4G5G
- NB-IOTLTE CAT-M
- LORASIGFOXZIGBEE
- RFIDGNSSISM
- BLUETOOTH CBRS
- THREADSIDEWALK
- Z-WAVEMATTER
- CELLULAR IOT

- 2G3G4G5G
- NB-IOTLTE CAT-M
- CELLULAR IOT

- 4G5GNB-IOT
- LTE CAT-MBLUETOOTH
- LORASIGFOXZIGBEE
- GNSSWi-FiISM
- SIDEWALKCELLULAR IOT
- Z-WAVETHREAD

All Virtual Antenna® chips are omnidirectional, 50 Ω, linear (polarization), SMT (mounting) and suitable for temperatures from -40 to +125°C.

All above antenna specs have been measured using a corresponding evaluation board. Additional evaluations boards for assessing the operation of the product in other supported communication standards (such as LTE, UMTS, GSM, GPRS, BT, Wi-Fi, GNSS, ISM) are available along with the associated product user manuals and application notes. For more information about Ignion products or services please visit ignion.io.

ISO 9001: 2015 Certified

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Av. Alcalde Barnils 64-68. 08174 Sant Cugat del Vallès, Barcelona, Spain. Tel: +34 935 660 710



Simplify your RF design journey.

Ignion's high-performance, miniature Virtual Antenna® components are designed to fit effortlessly into any IoT project. From asset tracking and smart meters to wearables, smart cities, and medical devices, our multiband, multipurpose technology delivers seamless connectivity across all applications—no matter how compact.

Contact us



BARCELONA

📍 Avda. Alcalde Barnils,
64-68, Mod C, 3rd floor.
Sant Cugat del Vallès
08174 Barcelona, Spain.

✉️ info@ignion.io

📞 +34 935 660 710



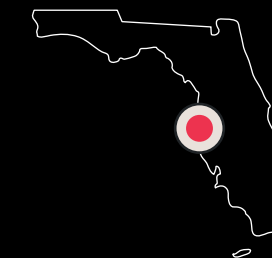
SHENZHEN

📍 Keyan Road 9, Nanshan District
BAK Science and Technology
Building, Room 1301E
Shenzhen, GD 518057
China

✉️ info@ignion.io

💻 www.ignion.cn

📞 +86 138 2653 8470



TAMPA

📍 8875 Hidden River Parkway
Suite 300
Tampa, FL 33637
USA

✉️ info@ignion.io

📞 +1 888 726 8366

