

Product portfolio



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	NANO mXTEND™	ONE mXTEND™	DUO mXTEND™	TRIO mXTEND™	ALL mXTEND™	RUN mXTEND™
Part Number	NN02-101	NN02-201	NN03-320	NN03-310	NN02-220	NN02-224
Dimensions (L x W x H) mm	3.0 x 2.0 x 0.8	$7.0 \times 3.0 \times 1.0$	7.0 x 3.0 x 2.0	30.0 × 3.0 × 1.0	24.0 × 12.0 × 2.0	12.0 x 3.0 x 2.4
Number of Antenna Ports	1 port solution	1 port solution	1-2 port solution	1-3 port solution	1 port solution	1 port solution
Operating Range (MHz)	2400 - 10600	800 - 10600	1561 - 10600	698 - 8000	698 - 8000	698 - 8000
Best for (MHz)	2400 - 2500	824 - 7125	1561 – 5875	698 - 3800	698 - 2690	824 - 5875
Weight (g) aprox.	0.01	0.02	0.11	0.25	1.23	0.19
Reference Design Frequencies (MHz)	2400 - 2500	3300 - 5000	1561 - 1606 2400 - 2500	698 - 960 1710 - 2690	698 - 960 1710 - 2690	824 - 960 1710 - 2690
Average Efficiency (%)	>55	>70	>45 >50	>55 >65	>55 >75	>65 >70
Efficiency Range (%) (min - max)	66.3 - 75.4	64.0 - 85.3	44.6 - 54.6 47.2 - 57.7	48.5 - 64.3 52.9 - 80.2	40.2 - 71.1 71.6 - 90.3	54.3 - 78.6 57.2 - 86.0
Peak Gain (dBi)	2.4	4.1	-1.1 -0.9	1.1 2.4	2.3 3.1	2.8 1.8
VSWR	<2.5:1	<2.5:1	<3:1	<3:1	<3:1	<3:1
Ref. Design Part Number	EB_NN02-101-c-BT	EB_NN02-201-5G	EB_NN03-320-m-GNSS-BT	EB_NN03-310-M	EB_NN02-220-1B-2R-1P	EB_NN02-224-1B-2RJ-1P
Examples of wireless service applications	BLUETOOTH WI-FI UWB	2G 3G 4G 5G NB-IOT LTE CAT-M CELLULAR IOT WI-FI DUAL BAND WI-FI 5 WI-FI 6 WI-FI 6E CBRS WI-FI 7	5G GNSS BLUETOOTH WI-FI DUAL BAND UWB CBRS	2G3G4G5GNB-IOTLTE CAT-MLORASIGFOXZIGBEERFIDGNSSISMCBRSTHREADSIDEWALKZ-WAVEMATTERCELLULAR IOT	2G 3G 4G 5G NB-IOT LTE CAT-M CELLULAR IOT	2G3G4G5GNB-IOTLTE CAT-MLORASIGFOXZIGBERGNSSWI-SUNISMCBRSTHREADSIDEWALKZ-WAVEMATTERCELLULAR IOT

All Virtual Antenna[®] chips are omnidirectional, 50 Ω , linear (polarization), SMT (mounting) and suitable for temperatures from -40 to $+125^{\circ}$ 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. More information about Ignion products or services please visit ignion.io.

ISO 9001: 2015 Certified









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