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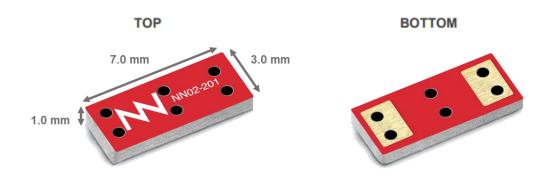
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ONE mXTENDTM (NN02-201)



ONE mXTEND™ (NN02-201)

The ONE mXTEND™ antenna booster, with a **volume of only 21mm³**, is the smallest chip of the Virtual Antenna™ family. This miniature, multipurpose and ultra slim component is designed to provide multiband connectivity at **cellular loT**, including connectivity within several 2G, 3G, 4G and 5G bands, but also for other regions of the spectrum, such as **Wi-Fi 6E**.



Product Benefits

- **Smallest volume:** Multiband cellular/ISM IoT performance in the smallest volume form factor: 7.0 mm x 3.0 mm x 1.0 mm.
- Multiband: 2G/3G, NB-IoT/LTE-M, 5G, ISM and Wi-Fi 6E applications.
- Wide reach: Multi regional product (compatible with multiple regional standards).
- Reliability: Off-the-Shelf standard product, no antenna part customization (electronic optimization).
- Use cases: Wi-Fi 6E devices and IoT entry level products such as miniature.
 trackers, IoT sensors, wearables and alike.

Operation Bands Summary

• GSM, UMTS, 5G, Wi-Fi 6E (824 – 960MHz, 1710 – 2170MHz, 3300 – 5000MHz, 5170 – 5835 MHz and 5925 – 7125 MHz)

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1. AVAILABLE SOLUTIONS SUMMARY

Class	Frequency Regions	Frequency range More detailed info		
1 Port	1	3300 – 5000 MHz	<u>5G</u>	
1 Port	2	880 – 894 MHz & 1710 – 2170 MHz	CELLULAR EUROPE	
1 Port	2	824 – 960 MHz & 1710 – 2170 MHz	CELLULAR USA	
1 Port	3	2400 – 2500 MHz & 5170 – 5835 MHz & 5925 – 7125 MHz	<u>Wi-Fi 6E</u>	

2. DETAILED AVAILABLE SOLUTIONS

2.1. 5G SOLUTION

Technical features	3300 MHz – 5000 MHz	
Average Efficiency	> 70 %	
Peak Gain	4.1	
VSWR	< 3:1	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Weight (approx.)	0.02 g.	
Temperature	-40 to +125 °C	
Impedance	50 Ω	
Dimensions (L x W x H)	7.0 mm x 3.0 mm x 1.0 mm	

Technical features. Measures from the evaluation board (131 mm x 60 mm x 1 mm).

2.2 CELLULAR EUROPE SOLUTION

Technical features	880 – 960 MHz	1710 – 2170 MHz	
Average Efficiency	> 55%	> 65%	
Peak Gain	1.3 dBi	1.7 dBi	
VSWR	< 3:1		
Radiation Pattern	Omnidir	Omnidirectional	
Polarization	Linear		
Weight (approx.)	0.02 g.		
Temperature	-40 to +125 °C		
Impedance	Impedance 50Ω		
Dimensions (L x W x H) 7.0 mm x 3.0 mm x 1.0 mm			

Technical features. Measures from the evaluation board (131 mm x 60 mm x 1 mm).

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2.3 CELLULAR USA SOLUTION

Technical features	824 – 894 MHz	1850 – 2170 MHz	
Average Efficiency	> 65%	> 70%	
Peak Gain	1.9	2.0	
VSWR	< 3:1		
Radiation Pattern	Omnidirectional		
Polarization	Linear		
Weight (approx.)	0.02 g.		
Temperature	-40 to +125 °C		
Impedance	50 Ω		
Dimensions (L x W x H)	mm x 1.0 mm		

Technical features. Measures from the evaluation board (131 mm x 60 mm x 1 mm).

2.4 WI-FI 6E SOLUTION

Technical features	2400 – 2500 MHz	5170 – 5835 MHz	5925 – 7125 MHz		
Average Efficiency	> 80%	> 85%	> 85%		
Peak Gain	3.2	3.3	5.0		
VSWR	< 2.5:1				
Radiation	Omnidirectional				
Pattern					
Polarization	Linear				
Weight	0.02 g.				
(approx.)	•				
Temperature	-40 to +125 °C				
Impedance	50 Ω				
Dimensions (L x W x H)	7.0 mm x 3.0 mm x 1.0 mm				

Technical features. Measures from the evaluation board (86 mm x 54 mm x 1 mm).

If you need assistance to design your matching network, please contact support@ignion.io

You can also try our free of charge¹ NN Wireless Fast Track service you will receive a tailored antenna design approach for free in 24h¹. discover the feasibility of your next wireless project including the antenna!

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

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