

Inventec NX-R311 Series

Open, Smart, Agile

Highlights

- 5G Integrated Small Cell .
- The 3GPP R15 standard effectively improves the network performance and provides excellent services .
- Support 5G N78 / N79 .
- Has 4x4 MIMO high-efficiency and high-sensitivity antennas .
- Max. output power 24 dBm .
- Support the precision time protocol IEEE 1588 V1/V2 .



Lightweight



4 x 4 MIMO



N78 / N79



High
Performance



Easy
Installation



IEEE 1588
V 1 / V 2



A 5G base station equipment solution that provides a variety of applications for users

The new generation 5G Integrated Small Cell (ISC), NX-R311 Series has transmission power that complies with regulatory limits and has built-in antennas (3dBi antenna gain) that enhances high-performance requirement for network density, while meeting the low latency requirements of 5G connection for users. Based on the 4T4R antenna configuration, it meets the higher capacity, wider coverage and low latency requirements of 5G networks and can support up to 128 connected users simultaneously; it is the best 5G Integrated Small Cell in the industry.

Compact and lightweight, simple installation and does not take up a lot of space

NX-R311 Series is usually used for high-performance and regional wireless communication coverage, such as offices, small communities, shopping malls or other locations. The size of NX-R311 Series is small (length 312 mm, width 200 mm, height 70 mm), it is lightweight (only 3.5KG), and it is currently the smallest all-in-one machine in the industry. It is easy to install and does not take up a lot of space; therefore, it can be easily installed and deployed anywhere.

About Inventec

Since its founding in 1975, Inventec has grown from an early manufacturer of computers and telephones to a leading design manufacturer of notebooks, servers, and wireless communication products. With the advent of the 5G generation, Inventec is expanding its capabilities in 5G private network system integration and architecture, transforming its world-class manufacturing facilities into 5G smart factories.

Inventec Corporation

No.66, Hougang St., Shilin Dist., Taipei City 111059, Taiwan
Tel : 886-2-2881-0721 Ext : 23464
Email : CC55G_support@inventec.com

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Installation flexibility and high performance

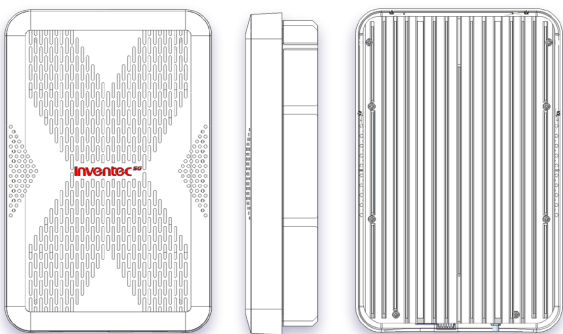
It is very small and lightweight; it can be deployed within limited space, thus saving cost and space. In addition, the flexible deployment of the 5G Integrated Small Cell (ISC) also makes it suitable to be deployed in various environments; for locations with limited space, ISC can be deployed effectively and installed on walls, rooftops and basements without having negative impacts to the location.

Has the 4T4R technology that allows 5G to reach the core network directly

NX-R311 Series is an Integrated Small Cell that is applied in the wireless communication field; it supports the NR N78 / N79 frequency band and has 4x4 MIMO. In actual applications, NX-R311 Series can provide faster and stable access to the core network for 5G terminal devices and uses 4T4R technology to realize more efficient communication capabilities and performances and achieves better 5G communication experiences.

Supports the Precision Time Protocol

NX-R311 Series supports the IEEE 1588 high precision time synchronization protocol and ITU-T G.8275.1 to ensure that the time and phase are consistent with T-GM, hoping to meet the synchronization requirements for the industrial IoT and AIoT 4.0 massive data network transmissions and be prepared for the Time-Sensitive Networking (TSN). Under the advantages of supporting large numbers of connected users and high-flexibility installation, it provides wide communication coverage range and high-quality communication services.



NX- R311 Series | Product Specifications

Item	Description
Chassis Dimension	(W) 312mm x (D) 200mm x (H) 70mm
PTP	Support IEEE 1588 V1 / V2 G.8275.1, SyncE
Memory	DDR4 on board Support ECC, up to 3200 MHz, 32 GB
Storage	1 x eMMC (128 GB)
RF Output	TDD 4T4R @5G
Max. Output Power	24dBm / port
Antenna Gain	3dBi
Throughput	1.2Gbps / 180Mbps DL / UL, 7D1S2U, SCS : 30KHz, BW : 100MHz
Max. Active User	128
RF Bandwidth	20 / 40 / 60 / 80 / 90 / 100 MHz
I/O Interface	<ul style="list-style-type: none"> • 1 x 10G SFP+ • 1 x RJ-45 1GBase-T • 1 x DC jack • 1 x Reboot • 1 x SMA (GPS/GNSS)
Power Supply	DC 12V/8A
System Weight	< 3.5Kg

NX- R311 Series | Model Numbers

NX-R3110	5G N79 (4.8 ~ 4.9 GHz)
NX-R3112	5G N78 (3.3 ~ 3.6 GHz)