

Inventec NX-R201 Series

Open, Smart, Agile



Highlights

- GUI - based local and remote Web management.
- Suitable for private and public deployments; any IP - based backhaul can be used, including public transmission protected by Internet Protocol Security (IPsec) .
- Peak rate up to DL 580 Mbps with 4 x 4 MIMO CA mode.
- Supports 512 RRC - connected users per cell, 512+512 RRC - connected users in DC mode.
- Integrated small cell form factor for quick and easy installation.
- Highly secure with equipment certification against potential intrusion risk.



Introduction

The NX-R201 Series is an advanced two - carrier outdoor eNodeB (eNB) compliant with 3GPP LTE TDD and hardware-ready for New Radio (NR) 5G technology. This 4x40 W eNB operates in Carrier Aggregation (CA) mode or Dual Carrier (DC) mode.

In CA mode, NX-R201 Series supports 2CC (2 Component Carriers) DL / UL CA. 2CC DL / UL CA doubles DL / UL peak throughput compared to a single carrier by aggregating two separate spectrum resources into a virtual contiguous spectrum resource.

In DC mode, each carrier is treated as an independent cell, supporting 512+512 users, with each cell supporting 5, 10, 15, 20, or 100 MHz (for NR only) bandwidth. Using a NX - R201 Series in DC mode simplifies and streamlines the deployment of split sectors.



Supports 5G



Configured
out of the box



High Security

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 : CCS5G_support@inventec.com

[Learn more of Inventec 5G Smart Factory](#)



NX-R201 Series | Product Specifications

Standard	LTE TDD RAN (3GPP R15 compliant)	SON	Self-Organizing Network <ul style="list-style-type: none"> • Automatic setup • Automatic Neighbor Relation (ANR) • PCI confliction detection
TDD UL/DL Configuration	1, 2, 6 (with Special Subframe Configuration 7)	Maintenance	<ul style="list-style-type: none"> • Local/Remote Web maintenance • Online status management • Performance statistics • Fault management • Local/Remote software upgrade • Logging • Connectivity diagnosis
Frequency Band	B40 (2300 MHz–2400 MHz) B41 (2496 MHz–2690 MHz) B42 (3400 MHz–3600 MHz)	Power Control	UL Open - loop / Closed - loop Power Control, DL Power Allocation (3GPP TS 36.213 compliant)
Channel Bandwidth	SC : 5 / 10 / 15 / 20 MHz, or Max 100 MHz in NR mode CA: 40 MHz as maximum aggregated bandwidth	RET	AISG2.0, 24 VDC to 30 VDC, RS-485, 3GPP TS 25.461
Multiplexing	MIMO : 4 x 4 (DL)	Power Interface Lightning Protection	Differential mode : ± 10 KA Common mode : ± 20 KA
Ethernet Interface	1 optical (SFP) Ethernet interface (1 GE) 1 optical (SFP) CPRI or eCPRI (config as RRU mode)	MTBF	≥ 150000 hours
Power Supply	-40 VDC to -57 VDC, nominal -48 VDC AC adaptor (multi-national standards)	MTTR	≤ 1 hour
Protocols Used	IPv4 / IPv6(Dual Stack), UDP, TCP, ICMP, NTP, SSH, IPsec, TR-069, HTTP / HTTPS, DHCP	Operating Temperature	-40° F to 131° F / -40° C to 55° C
Network Management	IPv4 / IPv6, HTTP / HTTPS, TR-069, SSH, Embedded EPC	Storage Temperature	-49° F to 158° F / -45° C to 70° C
Ingress Protection Rating	IP66	Humidity	5% to 95% RH
Traffic Offload	Local breakout	Atmospheric Pressure	70 kPa to 106 kPa
Layer 2 Support	Transparent Bridge Mode	Power Consumption	Typical 520 W, maximum 560 W
Antenna Connection	4T4R external high - gain antenna with 4.3 - 10 connectors	Weight	Without bracket: 31 lb/14.1 kg With pre-installed bracket: 32.4 lb/14.7 kg
GPS Antenna	External GPS antenna, N-Type connector	Dimensions (HxWxD)	16.5 x 12.4 x 4.8 inches 420 x 315 x 123 millimeters
		Installation	Pole or wall mount

NX-R201 Series | Model Numbers

NX-R2010	Outdoor TDD eNB, B40 (2300 MHz–2400 MHz), 4T4R, 4 x 40 W, 48 VDC, external antenna, 1 OPT+1 OPT
NX-R2011	Outdoor TDD eNB, B41 (2496 MHz–2690 MHz), 4T4R, 4 x 40 W, 48 VDC, external antenna, 1 OPT+1 OPT
NX-R2012	Outdoor TDD eNB, B42 (3400 MHz–3600 MHz), 4T4R, 4x40 W, 48 VDC, external antenna, 1 OPT+1 OPT

Inventec logos are trademarks or registered trademarks of Inventec Corporation. Inventec reserves the right to modify this document, the Specifications and photos from time to time without notifying the Party. The entire materials provided herein are for reference only. All title and intellectual property rights in and to this document, the Specifications and photos contained therein, remain the exclusive property of Inventec or its suppliers.