

Inventec NX-R2000

Open, Smart, Agile

Highlights

- GUI-based local and remote Web management.
- Compact, all-in-one design of internal antenna.
- Suitable for private and public deployments; any IP-based backhaul can be used, including public transmission protected by Internet Protocol Security (IPsec).
- 128 RRC connected users per carrier, 128+128 in DC mode, upgradeable to higher capacity in future releases.
- Integrated small cell form factor for quick and easy installation.



Introduction

The NX-R2000 is an advanced two-carrier indoor eNodeB (eNB) compliant with 3GPP LTE TDD technology. This 4 x 250 mW eNB operates in either Carrier Aggregation (CA) mode or Dual Carrier (DC) mode.

In CA mode, the NX-R2000 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 128+128 users, with each cell supporting 5, 10, 15, or 20 MHz bandwidth. Using a NX-R2000 in DC mode simplifies and streamlines the deployment of split sectors.



All in one



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.

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NX-R2000 | Product Specifications

Standard	LTE TDD RAN (3GPP Release 15 compliant)	LED Indicators	<ul style="list-style-type: none"> • Local/Remote Web maintenance • Online status management • Performance statistics • Fault management • Local/Remote software upgrade • Logging • Connectivity diagnosis • Automatic start and configuration • Alarm reporting • User information tracing • Signaling trace
TDD UL/DL Configuration	1, 2, 6 (with Special Subframe Configuration 7)	RF Antenna	3 dBi built - in omni antenna
Frequency Band	B48 (3550 MHz - 3700 MHz)	GPS Antenna	External GPS antenna, SMA connector
Channel Bandwidth	SC : 5 / 10 / 15 / 20 MHz CA : 40 MHz as maximum aggregated bandwidth	Maximum EIRP	External GPS antenna, N - Type connector
Multiplexing	MIMO : 2x2 (DL)	MTBF	33 ± 1 dBm
Security	Radio : SNOW 3G / AES-128 Backhaul: IPsec (X.509 AES-128, AES-256, SHA-128, SHA-256)	Power Control	UL Open - loop / Closed - loop Power Control, DL Power Allocation (3GPP TS 36.213 compliant)
Ethernet Interface	1 optical (SFP) and 1 RJ-45 Ethernet interface (1 GE)	MTBF	≥ 150000 hours
Power Supply	12 VDC 2 A, PoE+/48 V 0.6 A, complies with IEEE 802.3 at standard	MTTR	≤ 1 hour
Protocols Used	IPv4 / IPv6 (Dual Stack) , UDP, TCP, ICMP, SNMPv2c, NTP, SSH, IPsec, TR-069, HTTP/HTTPS, 1588v2, DHCP	Operating Temperature	23° F to 113° F / -5° C to 45° C
Network Management	IPv4 / IPv6, HTTP / HTTPS, SNMPv2c, TR-069, SSH, Embedded EPC	Storage Temperature	14° F to 122° F / -10° C to 50° C
VLAN/VxLAN	802.IQ / V x LAN	Humidity	5% to 95% RH
LED Indicators	4 x status LED CELL1 / CELL2 / ALM / PWR	Atmospheric Pressure	70 kPa to 106 kPa
NSA	Supported	Power Consumption	≤ 20 W
SON	Self - Organizing Network <ul style="list-style-type: none"> • Automatic setup • Automatic Neighbor Relation (ANR) • PCI confliction detection 	Weight	3.3 lb / 1.5 kg
Traffic Offload	Local breakout	Dimensions (H x W x D)	8.7 x 8.7 x 1.9 inches 220 x 220 x 48 millimeters
Layer 2 Support	Transparent Bridge Mode		