Nova-227 Outdoor Base Station

INTRODUCTION

The Nova 227 is a unique tool for your toolbox. We've built and priced this lower power LTE microcell specifically for tightly clustered pockets of customers, coverage holes, edges of your network, or simply opportunistic micro targeting, like RV parks, marinas, and high density dwellings like townhomes and apartments. When paired with self-install indoor CPE, such customer sets can be captured quickly and with a near immediate ROI. For private network operators, this microcell is perfect for clusters of cameras and other devices, such as at traffic intersections.

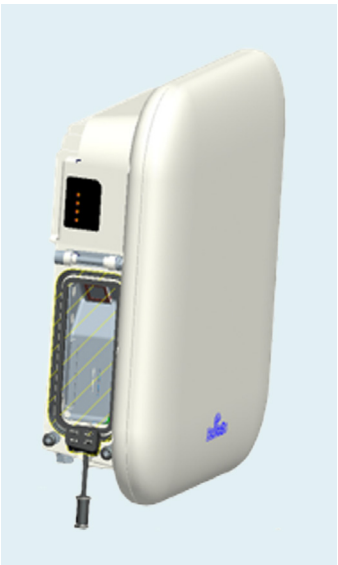
FEATURES

- Super slim and beautiful design, suitable for private and public deployments
- Any IP based backhaul can be used, including public transmission
- Low power consumption; can be integrated with solar power
- PoE+ power supply; only one Ethernet cable required for data transmission and power supply
- Excellent NLOS coverage performance
- Max throughput of 110 Mbps DL, 10 Mbps UL with 20 MHz spectrum
- 96 concurrent users
- Supports emergency gateway (eGW) option for S1 aggregation to reduce signaling load of MME
- Supports local traffic offload and charging with eGW, and with both integrated local gateway and external eGW
- Highly secured with equipment certification against potential intrusion risk
- Smooth evolution to C-RAN architecture

HARDWARE SPECIFICATIONS

LTE Mode	TDD
Frequency Bands[a]	42/43/48
Frequency	3550-3700 MHz
Channel Bandwidth	10 MHz, 20 MHz
Output Power	27 dBm (24 dBm per antenna) 2*250mW
Power Supply	802.3at
Receiving Sensitivity	-101 dBm
Synchronization Mode	GPS synchronization
Backhaul Mode	RJ-45 Ethernet backhaul
MIMO	2*2 MIMO
Dimensions	9.8 in (H) x 9.8 in (W) x 3.2 in (D) 248mm (H) * 248mm (W) * 80mm (D)
Installation Method	Pole or wall mounted
Antenna	Internal high gain antenna
Antenna Gain	13.5 ± 0.5 dBi
Beamwidth	65 degrees horizontal, 20 degrees vertical
Overall Power	< 20 W
Weight	About 4.4 lbs (2.0 kg)

Note: The test method of receiving sensitivity is proposed by the 3GPP TS 36.104, which is based on 5 MHz bandwidth, FRC A1-3 in Annex A.1 (QPSK, R=1/3, 25RB) standard.



SOFTWARE SPECIFICATIONS

LTE Standard	3GPP Release 9/10
Maximum Throughput	20 MHz: DL 110 Mbps, UL 20 Mbps 10 MHz: DL 55 Mbps, UL 9 Mbps
User Capacity	96 concurrent users
Modulation Mode	QPSK, 16QAM, 64QAM
Voice Solution	CSFB, VoLTE, SRVCC
Traffic Offload	Supports LIPA/SIPTO, which is Local IP Access and Selected IP Traffic Offload for short
SON	Automatic setup; Automatic Neighbor-cell Recognition (ANR); PCI confliction detection
RAN Sharing	Supported
Network Management Interface	TR069 interface protocol
MTBF	≥ 50000 hours
MTTR	≤ 1 hour
Maintenance	Remote/local maintenance, based on SSH protocol
	Online status management
	Performance statistics
	Fault management
	Local or remote software upgrade
	Logging
	Connectivity diagnosis
	Automatic start and configuration
	Alarm reporting
	KPI recording
	User information tracing
	Signaling trace

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°F to 131°F / -40°C ~ 55°C
Humidity	5% ~ 95%
Atmospheric Pressure	70 kPa ~ 106 kPa
IP Protection Grade	IP66