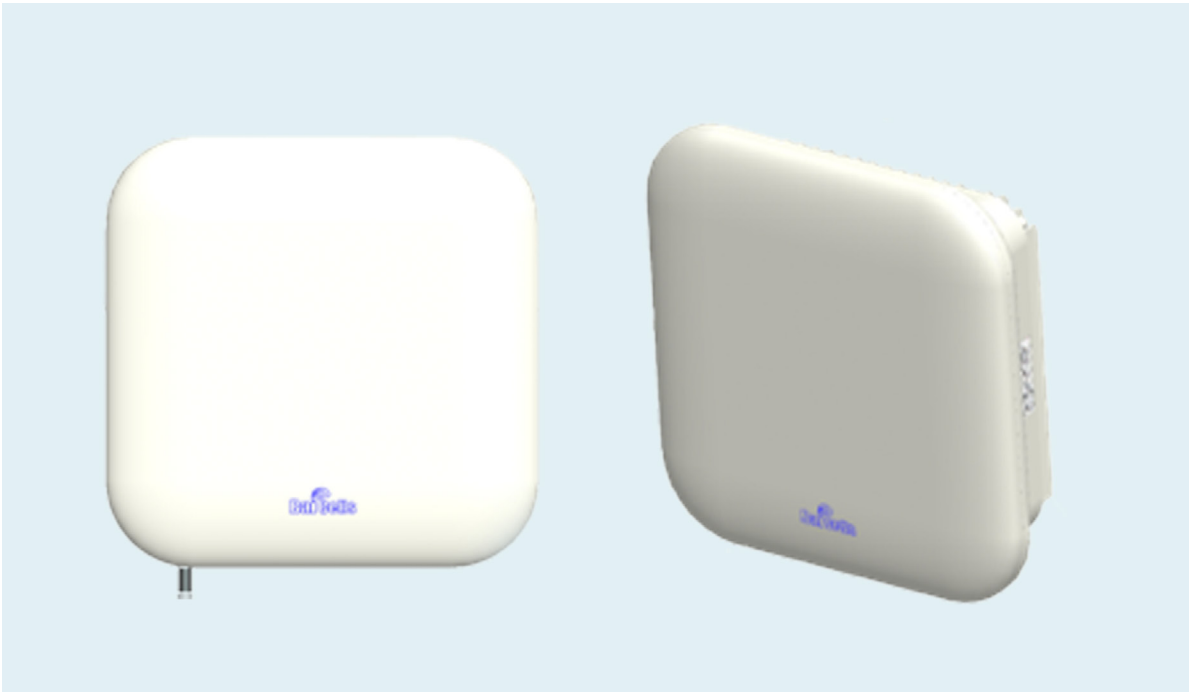


# Nova 250mW LTE Base Station



Nova 250mW LTE Base Station Appearance

## INTRODUCTION

The Baicells Nova 250mW eNodeB is a high performance outdoor micro base station based on TD-LTE technology, operating from 3550 - 3700 MHz. This 24 dBm LTE base station is ideal for line of sight in 3.65, and especially for microcells to serve tight clusters of users, such as campuses, RV parks, and MDUs. As well, this low cost unit is ideal for network edge extension for minimal subscribers while still meeting business model needs. The small size allows for mounting at subscriber locations for zero cost sight lease.

## FEATURES

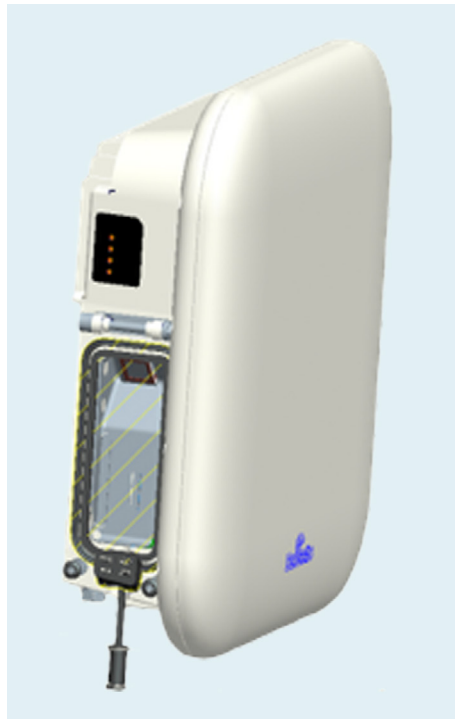
- Integrated design of baseband and RF
- Standards-based international 3GPP TDD LTE technology that provides high-speed voice and data services. Supports a maximum transfer rate of DL: 110 Mbps, UL: 20 Mbps.
- Flexible uplink and downlink time slot ratio: 2:2 and 1:3
- Supports 10 MHz / 20 MHz operation bandwidth
- Internal antenna and integrated GPS
- PoE+ power supply; only one Ethernet cable required for data transmission and power supply
- Security services to provide timely protection against potential security risks and illegal intrusion
- Convenient, simple, GUI-based local and Web management
- LTE integration that quickly provides accurate coverage and improved network capacity
- Intuitive network management functions for managing, monitoring, and maintaining operations

## TECHNICAL SPECIFICATIONS

LTE Mode	TDD
LTE Frequency	3550 MHz ~ 3700 MHz
Channel Bandwidth	10 MHz, 20 MHz
Output Power	24 dBm ± 2dB
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 mounted, wall mounted
Antenna	Internal high gain antenna
Overall Power	< 20 W
Weight	About 4.4 lbs (2.0 kg)

## 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



Nova 250mW LTE  
Base Station  
Interface and  
Indicators

## SOFTWARE SPECIFICATIONS

LTE Standard	TDD 3GPP Release 9
Maximum Throughput	20 MHz: DL 110 Mbps, UL 20 Mbps 10 MHz: DL 55 Mbps, UL 9 Mbps
Business Capacity	32 concurrent users (supports 96 active users)
Modulation Mode	QPSK, 16QAM, 64QAM
Traffic Offload	Supports LIPA/SIPTO, which is Local IP Access and Selected IP Traffic Offload for short
SON	Self-Organizing Network: supports plug-and-play, automatic start, optimization, and configuration
RAN Sharing	Supported
Network Management Interface	TR069 interface protocol
Northbound Interface	Web service, Socket, FTP, and other interface modes
MTBF	≥ 50000 hours
MTTR	≤ 1 hour
Maintenance	Remote/local maintenance, based on SSH protocol
	Remote maintenance
	Online status management
	Performance statistics
	Failure management
	Configuration management
	Local or remote software upgrading and loading
	Logging
	Connectivity diagnosis
	Automatic start and configuration
Alarm reporting	