

Nova-243 Outdoor 2x10W FDD-TDD eNB Quick Start Guide



February 2018
Version 1.1

Introduction

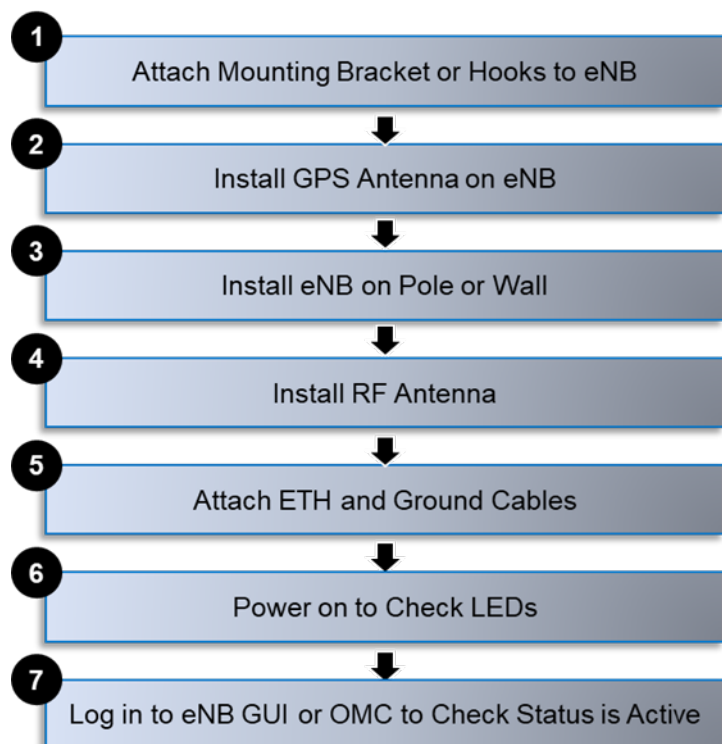
This quick start guide is intended for experienced installers. It provides high-level milestones for installing the BaiCells Nova-243 eNodeB. For more details, please refer to the *BaiCells Nova-243 Outdoor 2x10W FDD-TDD Installation Guide* on the website.

Prepare

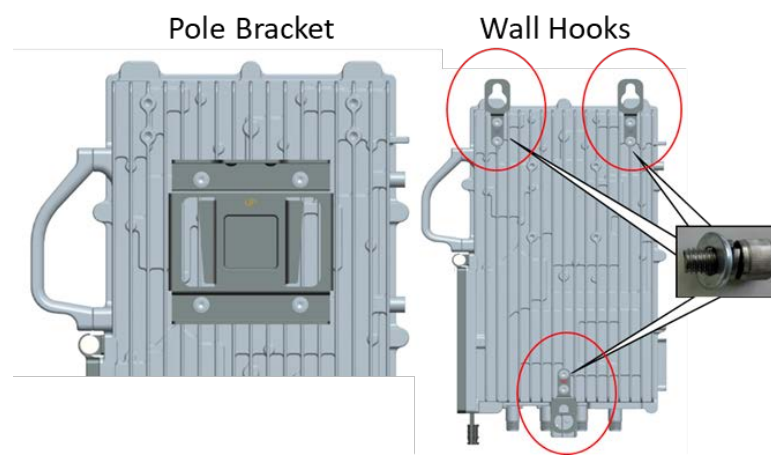


Level bar	Marking pen	Knife	Pliers	Wrench
Percussion drill and drill heads	Hammer	Cross screw driver	Cable vice (crimper)	Tape measure
5mm L-shape Allen wrench	Torx screw driver	T7 screwdriver head	Cable Stripper	

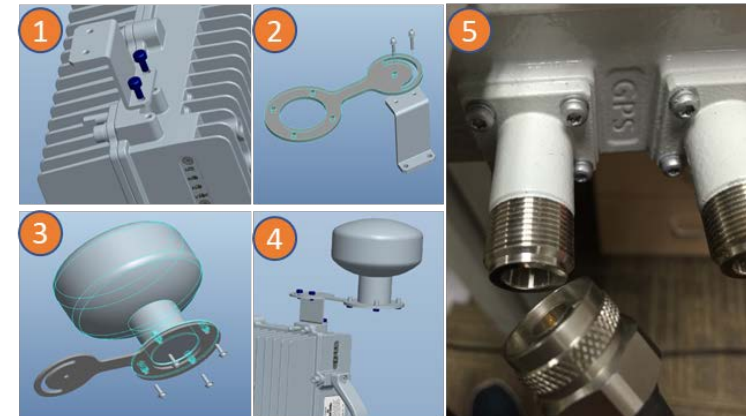
Overview



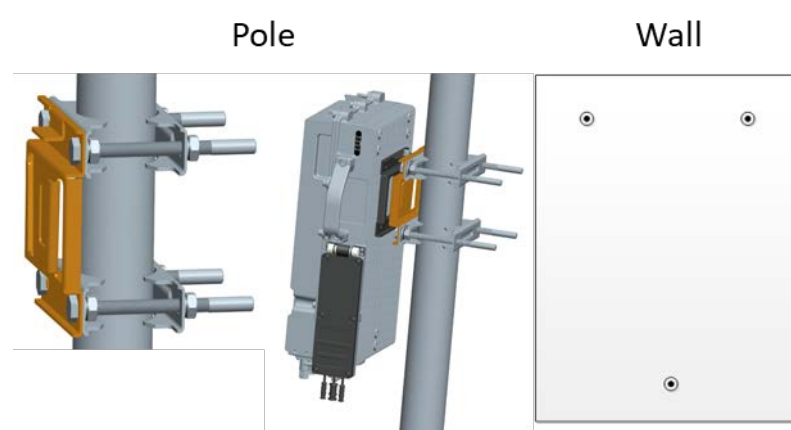
Attach Mounting Bracket or Hooks



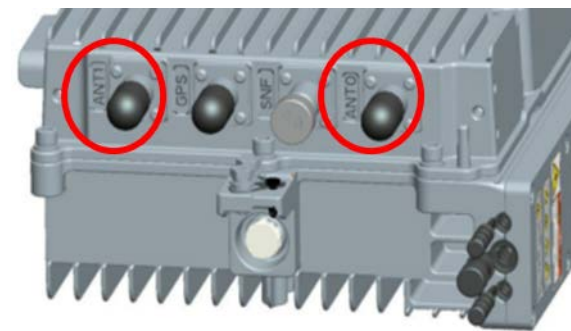
Install GPS Antenna (Optional)



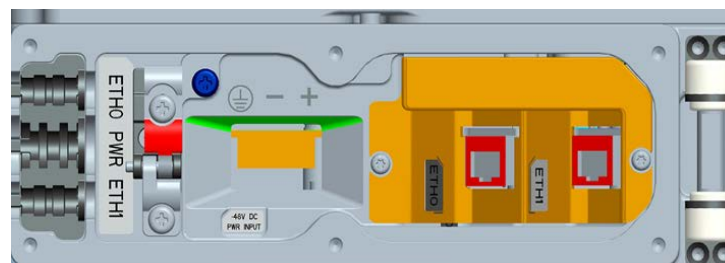
Install eNB on Pole or Wall



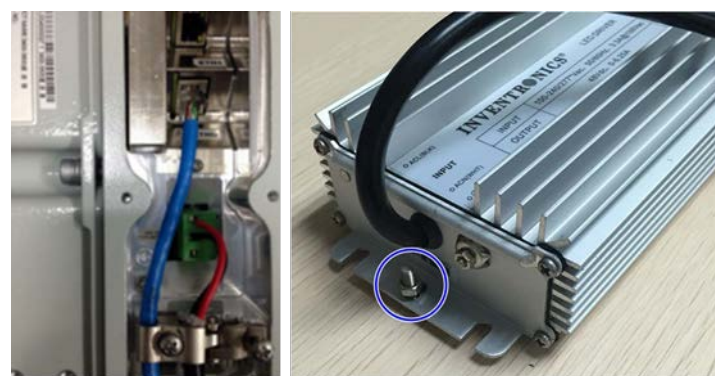
Connect RF Cables



Connect Ethernet Cable

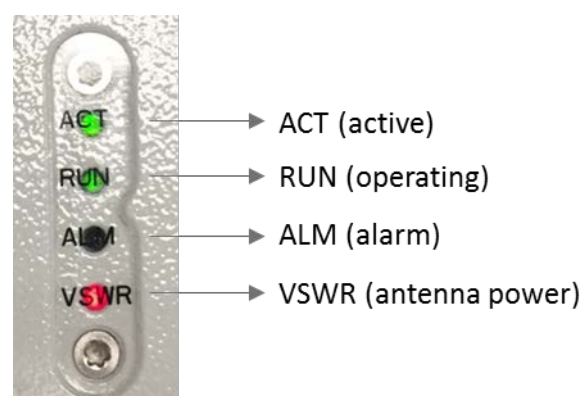


Connect Power & Grounding



Check LEDs

Power on the base station and check LED status:



LED	Color	Status	Description
ACT	Green	Steady On	The transmitting channel works normally
		OFF	The transmitting channel is not working
RUN	Green	Fast flash: 0.125s on, 0.125s off	The board is loading.
		Slow flash: 1s on, 1s off	The board is normal.
		OFF	No power input or faulty board
ALM	Red	Steady On	Hardware alarm, e.g., VSWR alarm
		OFF	No alarm
VSWR	Red	OFF	The standing wave is normal.
		Steady On	The standing wave is larger than normal.

Install

- **Wall** – drill three 12mm holes, fix with M10*80 expansion screws
- **Pole** - between 1.2 to 3.9 inches (30 to 100 millimeters), use M6*16 screws
- **GPS Antenna Considerations**
 - Space atop within 45° to 90° is not blocked by any buildings
 - At least 3 feet (.9 meters) from other transmitting devices
 - No metal objects within a range of 3.3 feet (1 meter) of the lightning arrester
 - Installed within 45° to the lightning rod
 - Separate multiple GPS antennas by 6.6 feet (2 meters)
 - Mounting bracket and pole must be grounded
- **RF Antenna (Omni)**
 - Top of pole with clamp beneath antenna should be at same level on pole
 - Precisely vertical
 - No metal objects within 3.3 feet (1 meter) of the omni
 - Top of antenna should fall within 45° safety angle towards lightning rod
 - High enough to meet coverage requirements
 - Verify grounding and lightning protection
- **RF Antenna (Directional)**



Check Base Station Status in Software

Web GUI login - <http://192.168.150.1> (admin/admin), **BTS Info > Status Info > Cell Status = Active**

OMC login - <https://cloudcore.cloudapp.net/cloudcore/> (your email address/your password), **eNB > Monitor > Active Status**

Weatherproof Connections

At least 3 layers of tape, last one bottoms up and tight

