

Nova-233 G2 Outdoor 2x1W FDD/TDD Base Station Quick Start Guide



November 2018
Version 1.5

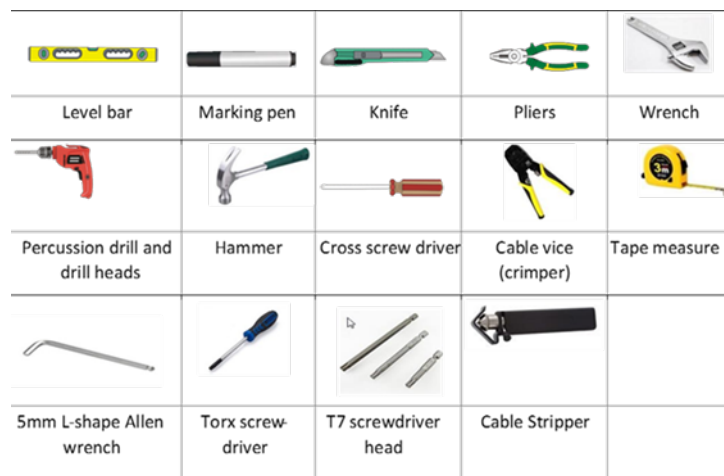
Introduction

This quick start guide is intended for experienced installers. It provides high-level milestones for installing the BaiCells Nova-233 Generation 2 Outdoor 2x1W FDD/TDD Base Station. For more details, please refer to the full Installation Guide: <https://Baicells.zendesk.com/hc/en-us/categories/204105328-Hardware>

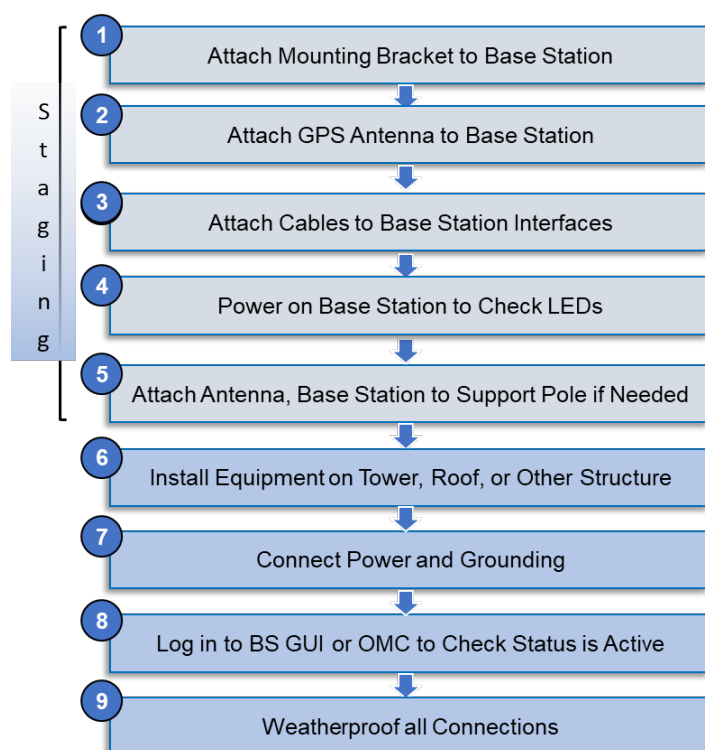
Check and Prepare

- 1 Nova-233 G2 2x1W base station
- 1 100V to 277V AC to 48V DC adaptor
- Power terminal (2 wires, green) and plug
- Optical module (2 SFP) if using optical backhaul
- GPS antenna kit
- Base station and Installation bracket kit
- Ground terminal (2)
- Cold shrink tubes (5)

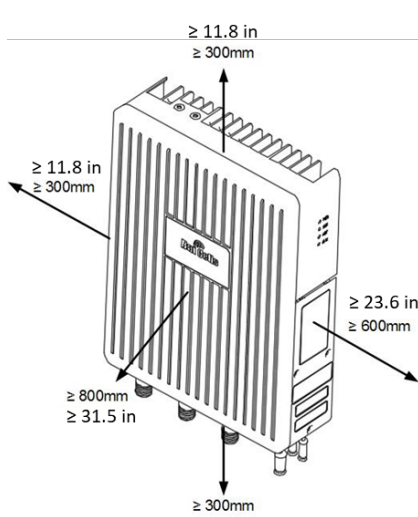
Item	Description
Power Cable	Gauge: Minimum AWG14 Length: Shorter than 330 feet (100 meters)
RF Antenna Cable	50-ohm feeder
Optical Fiber	SFP cage for standard 1.25 Gbps SFP modules
Ethernet Cable	Outdoor CAT6 Shorter than 330 feet (100 meters)
RF Antenna	Omnidirectional or Directional
Ground Cable	16mm ² diameter yellow-green wire



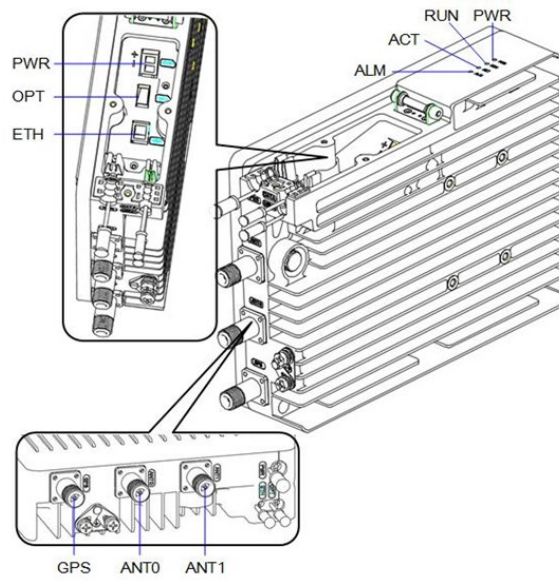
Overview



Space Requirements

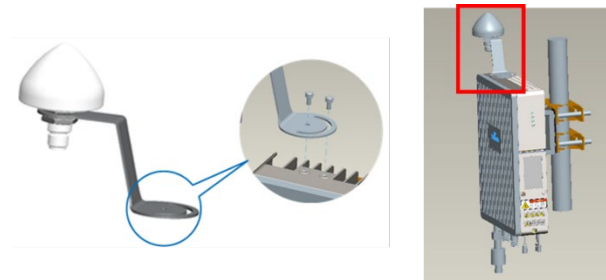


LEDs and Interfaces



LED	Color	Status	Description
PWR	Green	Steady on	Power is on
		Off	No power supply
RUN	Green	Fast flash: 0.125s on, 0.125s off	Base station is booting up
		Slow flash: 1s on, 1s off	Base station is booted and operational
		Off	No power input, or board failure
ACT	Green	Steady on	Active cell site. The transmitting channel is working normally.
		Off	Inactive cell site. The transmitting channel is not working.
ALM	Red	Steady on	Hardware alarm, e.g., VSWR alarm
		Off	No alarm

GPS Antenna and Cable

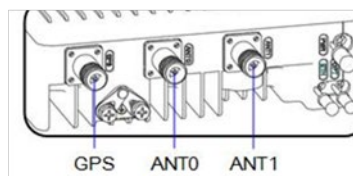


Thread GPS jumper cable through cold shrink tube:



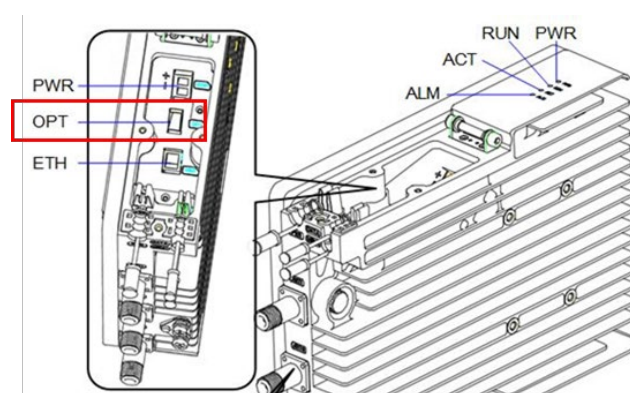
RF Antenna Cables

Use cold shrink tubes to weatherproof



WAN Interface Cable

Log in and check that the WAN Connect Type setting is correct for this install (either fiber optic or copper) *before* installing the eNB on the tower.



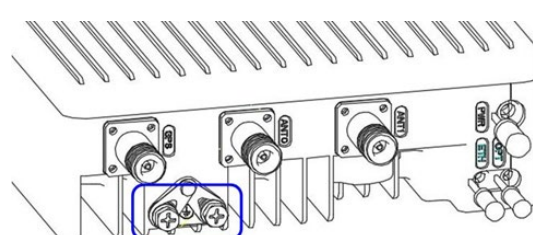
Ethernet Cable

Refer to the ETH interface in the figure above.

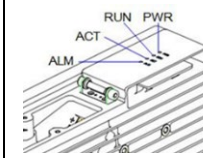
Power Connector and Ground Cable



Close wiring cavity. Connect grounding.



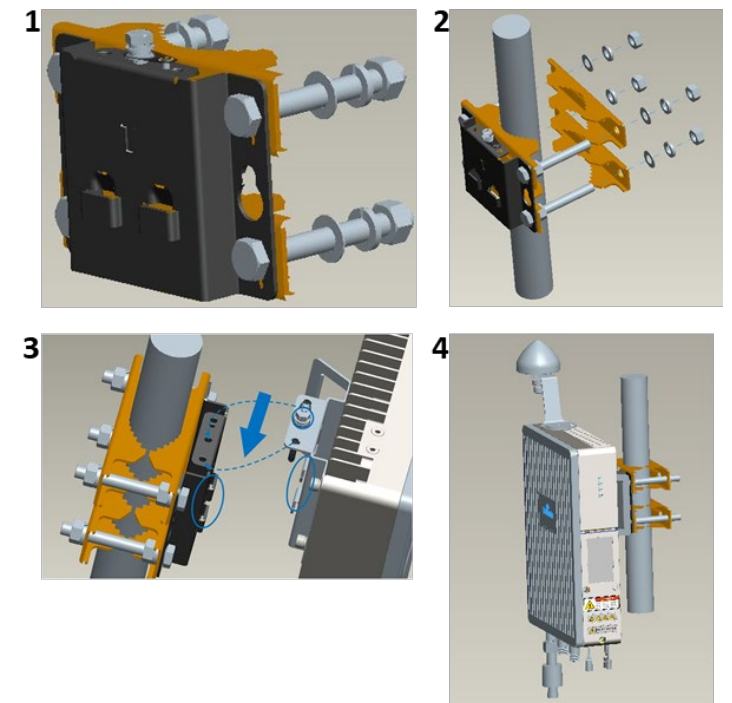
Power on and Check LEDs



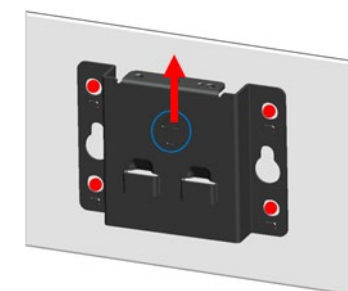
Install

NOTE: Some newer eNB models ship with a slightly different bracket, but the installation steps are generally the same. The newer brackets are illustrated in the full Installation guide.

- **Support pole** diameter between 1.6 to 3.9 in (40 to 100 mm). Suggested height of base station on pole at least 47 in (120 cm). 4 flat gaskets, 4 spring gaskets, 4 nuts



- **Wall** at least 4 x weight of base station. Four holes .4-in/10-mm diameter x 2.8-in/70-mm deep. Attach using M8*80 expansion screws.



GPS:

- 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 range of 3.3 feet (1 meter)
- Installed within 45° to the lightning rod

Omni RF Antenna

- 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

Directional RF Antenna



Weatherproof all connections.

Check Base Station Status in Software

Base Station 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**

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