

Nova-227 Outdoor 2x250mW TDD eNodeB Quick Start Guide



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Version 1.1

Introduction

This quick start guide is intended for experienced installers. It provides high-level milestones for installing the BaiCells Nova-227 Outdoor 2x250mW TDD Base Station. For more details, please refer to the BaiCells Nova-227 Outdoor 2x250mW TDD Base Station Installation Guide: <https://baicells.zendesk.com/hc/en-us/categories/204105328-Hardware>

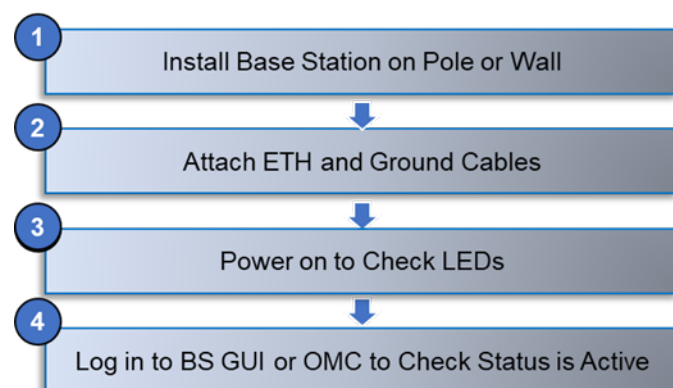
Check and Prepare

- 1 Nova-227 base station
- 1 mounting bracket
- 1 integrated bracket for pole or wall
- 1 U-shape clamp
- 1 Omega
- 1 screw packet with M6*12 combined screw * 8 and M8 hex nut * 2
- 1 PoE power adaptor
- 1 power cable (3.3 ft / 1 meter)
- 1 ground terminal

Item	Description
Ethernet cable	Outdoor CAT6, shorter than 330 ft (100 meters)
Ground cable	16mm ² diameter yellow-green wire, min AWG14

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



LEDs and Interface

- ALM
- ACT
- RUN
- PWR

Identity	Color	Status	Description
ALM	Red	Steady on	Hardware alarm, e.g., VSWR alarm
		OFF	No alarm
ACT	Green	Steady on	The cell is activated
		OFF	The cell is not activated
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 board fault
PWR	Green	Steady on	Power is on
		OFF	No power supply

Interface Name	Description
ETH	RJ-45 interface, used for data configuration or data backhaul, and PoE+ power supply

Install on Pole

Pole diameter: 1.6 to 3.9 inches (40 to 100 mm)

1. Assemble and attach mounting bracket.



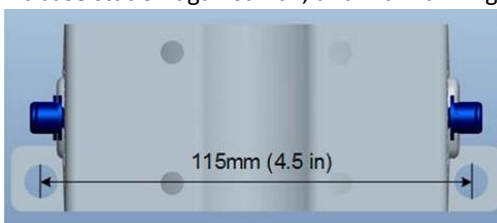
2. Attach base station to pole, passing omega through threaded rods and loosely fastening two nuts.



3. Adjust base station to proper angle based on RF goals; tighten screws.

Install on Wall

1. Fit base station against wall, and mark drilling holes.



2. Drill (4) 0.5-inch/12-mm diameter and 3.2-inch/80-mm deep holes.
3. Check up/down direction of installation rack, and fix base station to wall using M8*80 expansion screws.
4. Fix the base station on the bracket, and adjust it to the proper angle based on RF goals.

Ethernet Cable

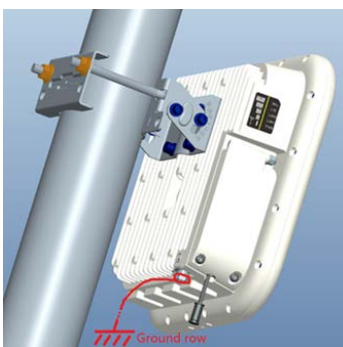
1. Unscrew 3 screws on the cover of the wiring cavity using M4 cross screwdriver. Open the wiring cavity cover.



2. Connect Ethernet cable to ETH interface in wiring cavity.
3. Lay ETH cable along wire groove, stretching it outside the cavity.
4. The other end of the ETH cable connects to the PoE power adaptor.

Ground Cable

1. Prepare grounding cable (16mm² diameter yellow-green wire, minimum AWG14), and according to site-specific requirements.
2. Unscrew the grounding screw. Connect one end of the grounding cable to the screw, and fasten it again.
3. The other end of the ground cable needs to connect to a good grounding point.



Power on and Check LEDs

Power on the base station, and check that the LEDs are lighting as expected (see "LEDs and Interface" section).

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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