Nova 10W Base Station Quick Start Guide

November 2017
Version 1.3

Introduction

This quick start guide is intended for experienced installers. It provides high-level milestones for installing the BaiCells Nova 10W Base Station. For more details, please refer to the *BaiCells Nova 10W Base Station Installation Guide* on the website.

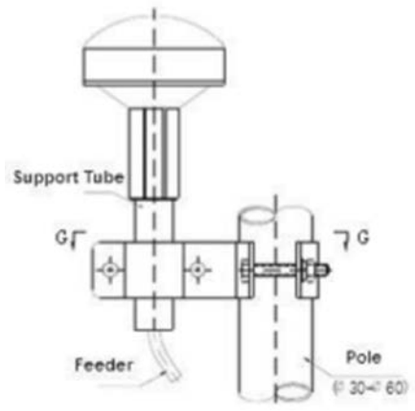
Prepare

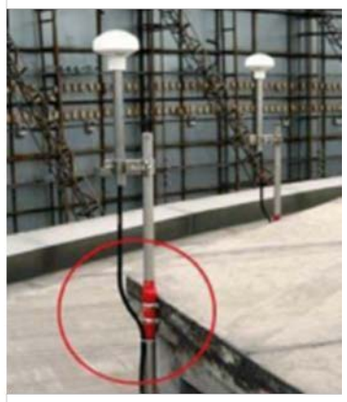
Level bar	Marking pen	Knife	Pliers	Wrench
Percussion drill and drill heads	Hammer	Cross screw driver	Cable vice (crimper)	Tape measure
5mm L-shape Allen wrench	Torx screw driver	T7 screwdriver head	Cable Stripper	

Overview

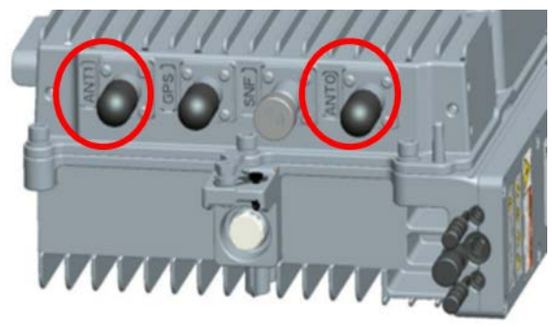
	Action
1	Attach mounting brackets
2	Optional: Attach GPS antenna
3	Connect cables: • RF • Ethernet • Power
4	Power on the base station to check LEDs
5	Install base station at final location
6	Check base station status in software
7	Verify lightning and grounding protection
8	Weatherproof all connections

GPS Antenna (Optional)

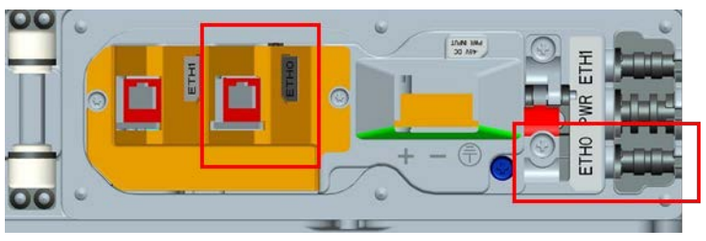




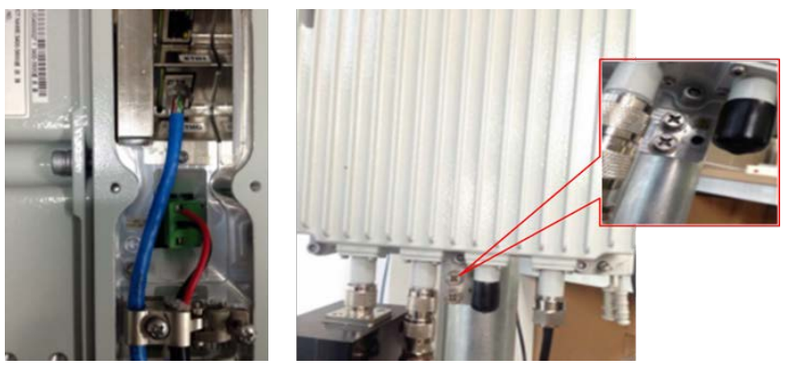
RF Cables



Ethernet Cable

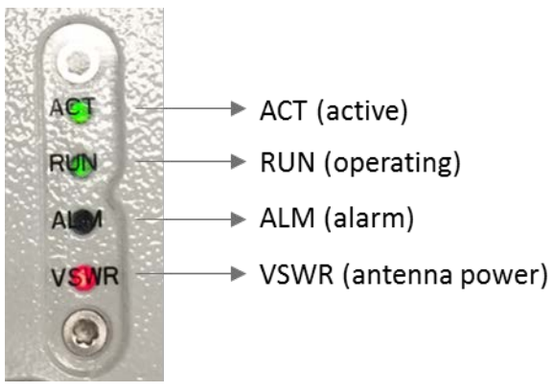


Power Cable & Grounding



Check LEDs

Power on the base station and check LED status:



LED	Color	Status	Description
ACT	Green	Steady on	Active cell site. The transmitting channel is working.
		Off	Inactive cell site. The transmitting channel is not working.
RUN	Green	Fast blink: 0.125s on, 0.125s off	Base station is booting up
		Slow blink: 1s on, 1s off	Base station is booted and operational
		Off	No power input, or board failure *
ALM	Red	Steady on	Hardware alarm * (e.g., cable connection failure)
		Off	No alarms
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 ft (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

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