

JATONTEC JTLink 5000 LTE-U CAT6 Small Cell Installation Manual V1.0



PLEASE READ THESE SAFETY PRECAUTIONS!

RF Energy Health Hazard



The radio equipment described in this guide uses radio frequency transmitters. Although the power level is low, the concentrated energy from a directional antenna may pose a health hazard.

Do not allow people to come in close proximity to the front of the antenna while the transmitter is operating.

Protection from Lightning



Before connecting this instrument to the power line, make sure that the voltage of the power source matches the requirements of the instrument. The unit must be standards.

Disposal and Recycling Information



Pursuant to the WEEE EU Directive electronic and electrical waste must not be disposed of with unsorted waste. Please contact your local recycling authority for disposal of this product.

Reduction of Hazardous Substances



This Device is compliant with the EU Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Regulation and the EU Restriction of Hazardous Substances (RoHS) Directive (Directive 2011/65/EU of the European Parliament and of the Council).

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1. Overview

JTLink 5000 is a highly integrated CAT6 small cell base station with all-in-one packaging of RF and base-band components. It includes integrated Quad receiver and transmitter to support two channel MIMO and Carrier Aggregation. It is available as an all outdoor solution for LTE-U applications to minimize physical footprint and operator expense.



■ User Interface Specification

Model	Description & User Interface
JTLink 5000	<ul style="list-style-type: none"> - Panel antenna: B46 (2 X 2) 17dBi, (4X 4) 13dBi B42/43/48 13dBi - 2 RJ45 10/100/1000M LAN Port - 1 SFP Port - Power, SYN, SAS, LTE, Link, ALM - 48V/0.5A PoE adapter/ 48V DC, ODU Power <24Watts - Dimensions: 250 mm (L) × 250 mm (W) × 80mm (D) - Weight: <2.5 Kg

2. Getting Started

1) Packing list

Upon receiving the product, please unpack the product package carefully. Each product is shipped with the following items:

Table 2-1 Packing List

Outdoor CPE Products	Quantity
Small cell	1
PoE adapter	1
Power cord	1
Mounting brackets	1
PC Ethernet Cable	1

If you find any of the items is missing, please contact our local distributor immediately.

2) Unpacking the Equipment

Table 2-1 lists all the standard parts that are supplied in your LTE small cell Installation Package. Please take the time to unpack the package and check its contents against this list.



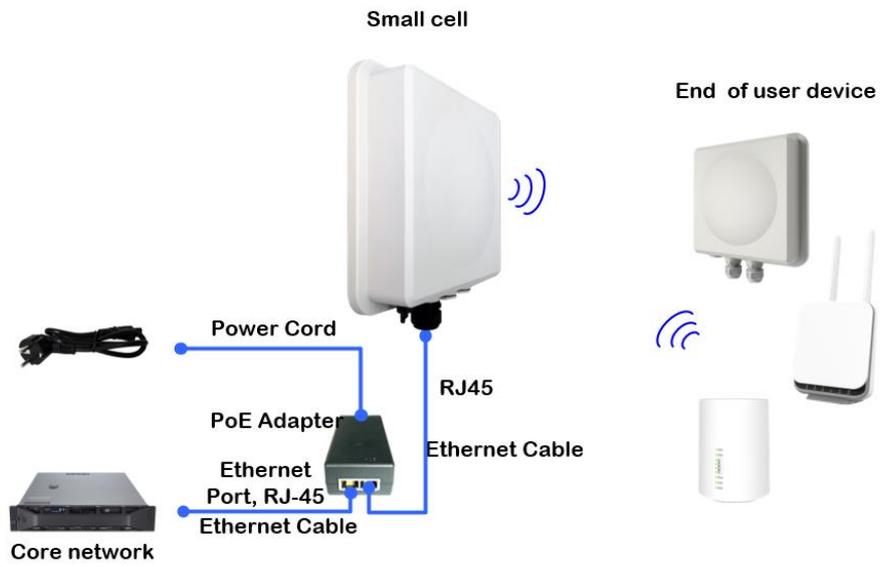
3) Installing the Equipment

■ Device Logic connection

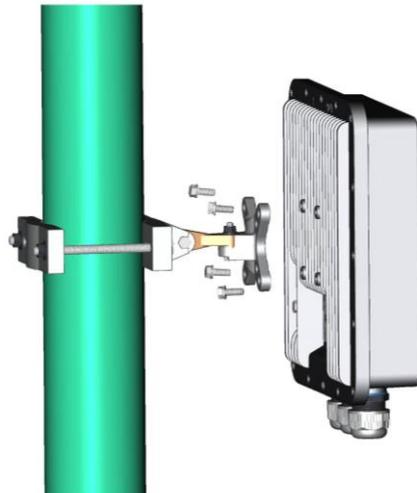
For small cell product, it is suggested that the device be installed in a shaded area to avoid direct sun light exposure which may cause over heat in certain extreme weather condition.

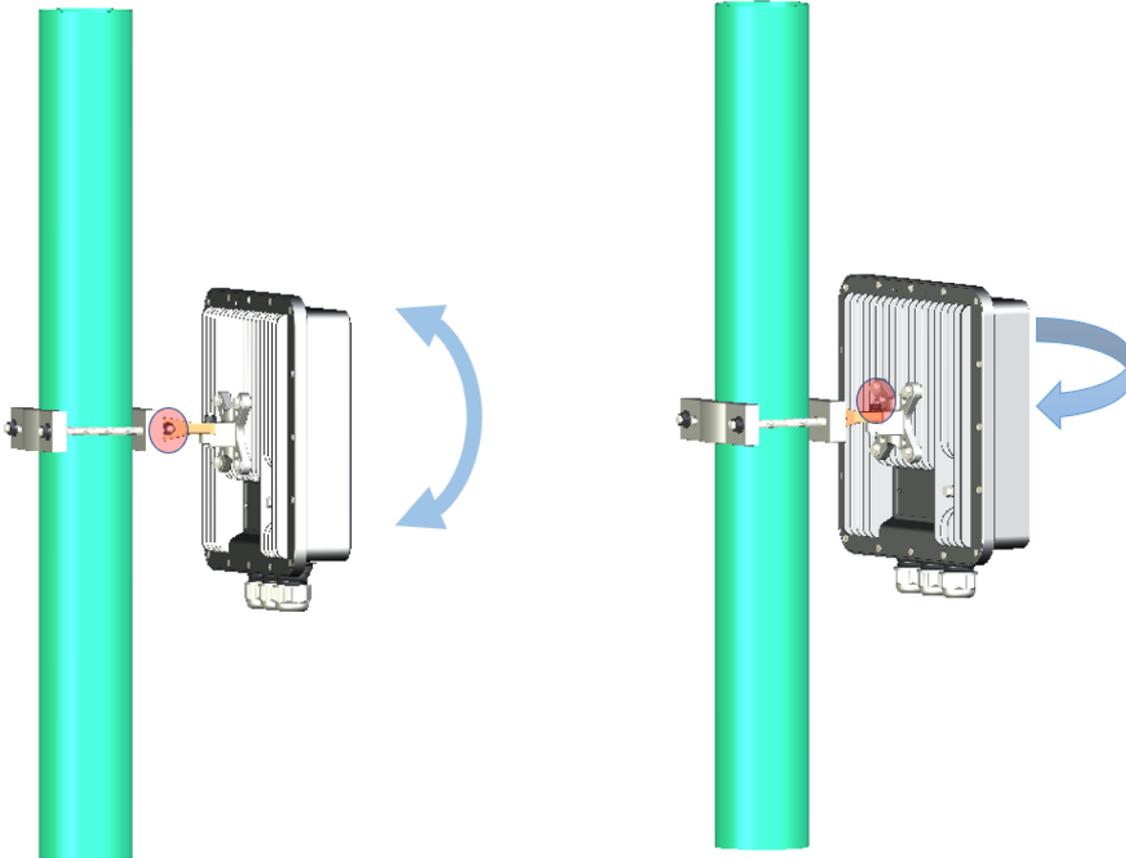
To power on the device, the small cell must use a 48V PoE integrated DC power supply adapter. The power adapters can operate in 100-240V AC range and therefore can be used in different country. Once the device is powered up, the user should wait for about 2 minutes before the device becomes operational.

To connect PC, LAN switch or other type of IP device to the small cell product, the user should use SFTP CAT5E Ethernet cable/ Optical cables and connect to the appropriate PoE adapter LAN port/ device SFP port. Once connected, the ETH LED indicator should come on.

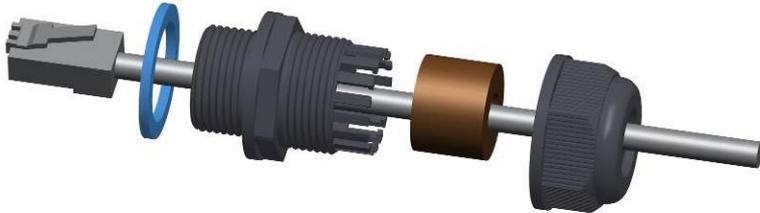


■ Installing Mounting brackets





■ Header Connection



3. LED Display

LED	Function	Description
PWR	Power indicator	Solid Blue – Device is power on.
SYN	GPS status indicator	Solid Blue –GPS syncing. Blinking Blue –GPS synced successfully Off –Device GPS is not working
SAS	TBD	TBD
LTE	Cell status indicator	Solid Blue – The cell setup success. Blinking Blue – The cell is communicating. Off – The cell is not working.
LNK	LAN port status	Solid Blue –S1 connected. Blinking Blue –S1 connecting.
ALM	Alarm indicator	Solid Blue –Device alarm.



4. Grounding

Make sure that the installation of the small cell unit, antenna and cables is performed in accordance with all relevant national and local building and safety codes. Even where grounding is not mandatory according to applicable regulation and national codes, it is highly recommended to ensure that the outdoor unit and the antenna mast are grounded and suitable lightning protection devices are used so as to provide protection against voltage surges and static charges. In any event, we not liable for any injury, damage or regulation violations associated with or caused by installation, grounding or lightning protection.

The Grounding screw is located on the lower part at the back of the unit (see Figure below). Use 10 AWG cable for grounding.



Connect one of a grounding cable to the grounding screw and firmly tighten the grounding screw. Connect the opposite end of the grounding cable to a good ground(earth) connection.