



Pulsar M Indoor BBU Quick Installation Guide

Document version:01

All rights reserved @ Baicells Technologies Co., Ltd

About This Document

This document introduce Pulsar M indoor BBU, and guides users to install the equipment.

Copyright Notice

Baicells Technologies, Inc., copyrights the information in this document. No part of this document may be reproduced in any form or means without the prior written consent of Baicells Technologies, Inc.

Disclaimer

The information in this document is subject to change at any time without notice. For more information, please consult with a Baicells technical engineer or the support team.

Revision Record

Date	Version	Description
9 November, 2025	01	Initial Released.

Contact Us

	Baicells Technologies Co., Ltd.	Baicells Technologies North America, Inc.
	China	North America
Address	10-11F, Bldg. A1, No.1 Zhongguancun, Yongfeng Industrial Base, Haidian Dist., Beijing, China	555 Republic Dr., #200, Plano, TX 75074, USA
Phone	400-108-0167	+1-888-502-5585
Email	contact@Baicells.com or support@Baicells.com	sales_na@Baicells.com or support_na@Baicells.com
Website	www.Baicells.com	https://na.Baicells.com

Contents

1.	Appearance.....	1
2.	Install BBU	3
2.1	Installation Tools.....	3
2.2	Installation Requirements.....	3
2.3	Wall Mounting (Recommended))	3
2.4	Cabinet Installation.....	4
2.5	Cable Connection.....	6
2.6	Power ON.....	6

1.Appearance

This series of BBUs supports two power supply modes: AC or DC. Meanwhile, each power supply mode supports either a single optical interface board or two optical interface boards.

Figure 1-1 Appearance – AC model

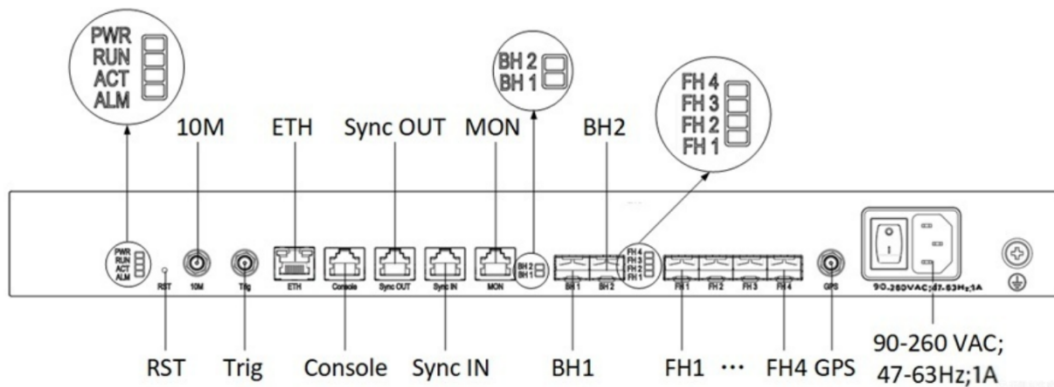
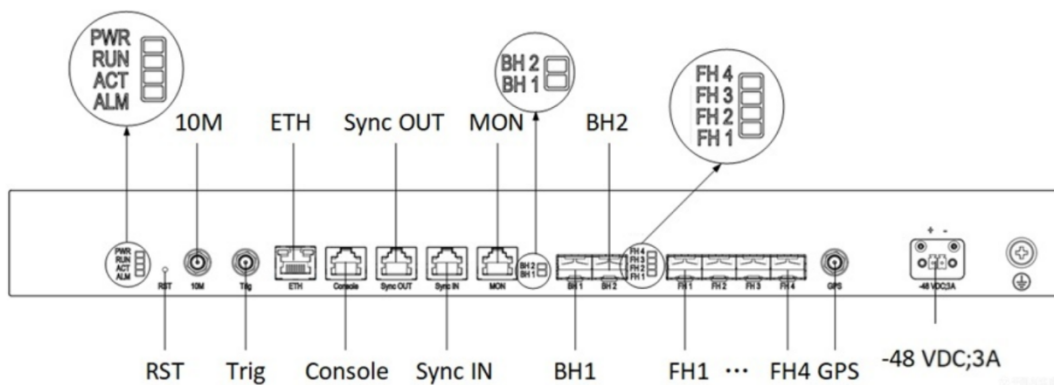


Figure 1-2 Appearance – DC model



When the BBU is configured with two optical interface boards, FH5 to FH8 in the dashed box are displayed on the panel; otherwise, a dummy panel is displayed.

Interface Description

90-260 VAC;47-63Hz;3A	AC power interface, connect to 90VAC ~260VAC power
-48VDC; 7A	DC power interface, connect to -48VDC power

RST	Reset button
10M	10M debugging clock interface, configurable as input or output
Trig	Trigger debugging signal interface, configurable as input or output
ETH	Debug Ethernet port (RJ-45)
Console	Debug serial port (RS232)
Sync OUT	1pps+TOD signal synchronous output interface
Sync IN	1pps+TOD signal synchronous input interface
MON	RS485 interface, used for expanding dry contacts
BH1	10 Gigabit optical interface (SFP+), upwardly connected to the core network, used for backhaul
BH2	10 Gigabit optical interface (SFP+), used for cascading
FH1 ~ FH4	10 Gigabit optical interface 1~4 (SFP+), downwardly connected to the rHUB (EU) or RU
GPS	Connect to GPS antenna, SMA female connector

Indicator Description

PWR	Green	Steady ON	The device is powered on.
		OFF	The device is powered off.
RUN	Green	Steady ON	The device is operating normally.
		Fast flash: 0.125s on, 0.125s off	The device is starting up.
		Slow flash: 1s on, 1s off	The cell has been activated.
ACT	Green	Steady ON	Device loading successful.
		OFF	Device loading failed.
ALM	Red	Steady ON	The device exists serious alarms.
		OFF	No alarm or alarms have been cleared.
BH1~BH2	Green	Steady ON	Backhaul SFP+ link is normal.
		OFF	Backhaul SFP+ link is failed.

FH1~FH4	Green	Steady ON	CPRI SFP+ link is normal.
		OFF	CPRI SFP+ link is failed.

2. Install BBU

2.1 Installation Tools

				
Marker pen	Impact drill	External hex socket screwdriver	Hammer	Straight & Phillips screwdriver

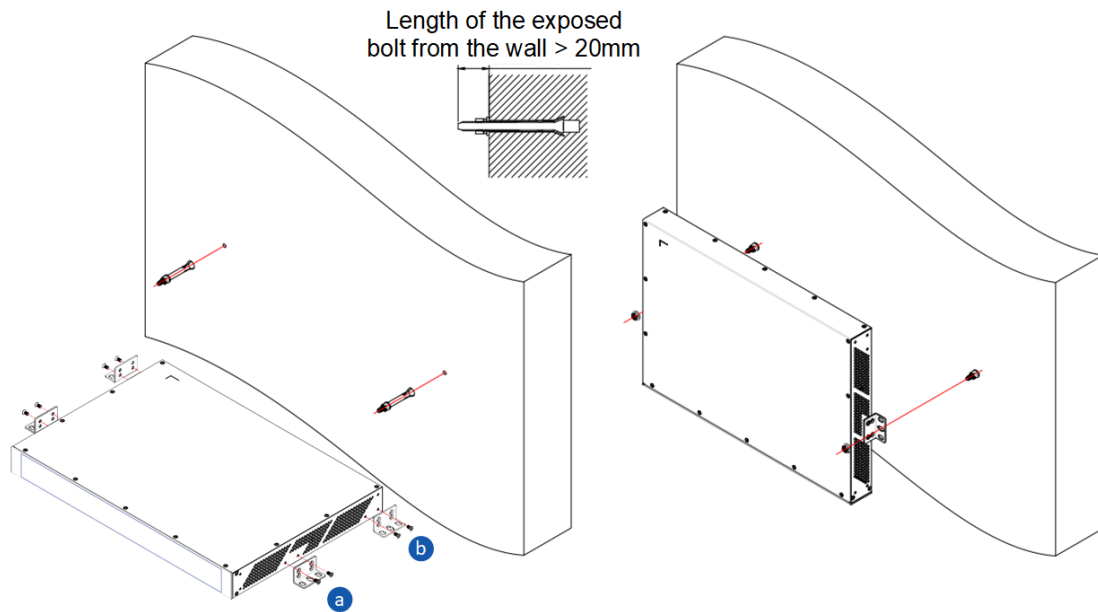
NOTE: Other accessories have been packed in the packing box.

2.2 Installation Requirements

The installation location should ensure that the ventilation holes are not obstructed, and that temperature and humidity conditions meet the requirements for normal operation of the equipment, being dry and well-ventilated. It is prohibited to install the device near a strong heat source environment, an environment with water leakage or dripping, strong interference, strong corrosive equipment, or a flammable or explosive place.

2.3 Wall Mounting (Recommended)

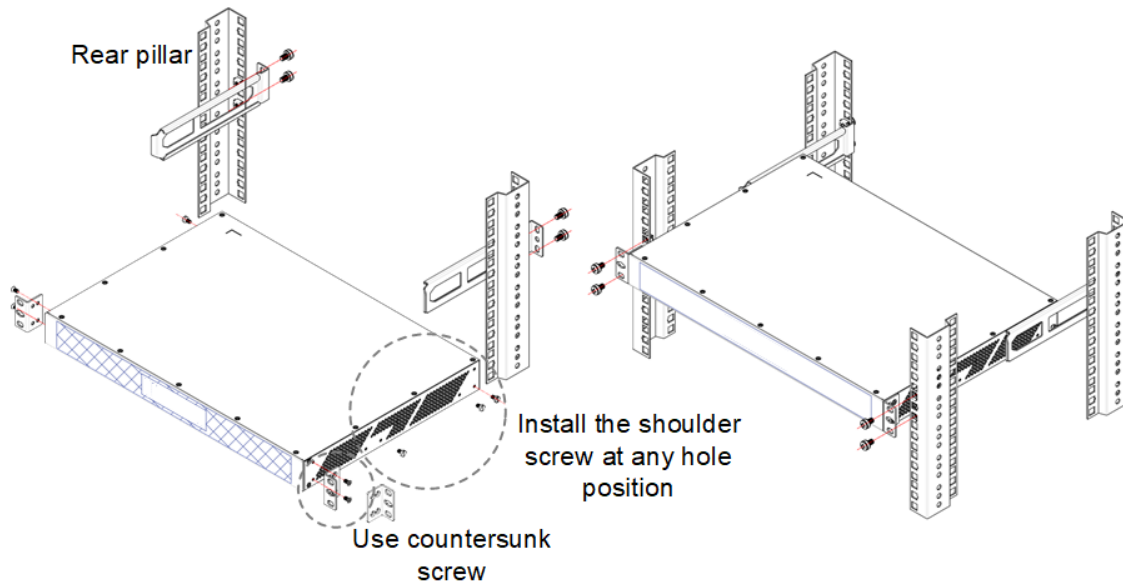
ATTENTION: To avoid safety risks, under no circumstances should the device be installed with the panel side facing up.



- ① Fix the mounting ears to the holes on both sides of the device with **countersunk screws**, and you can choose position **a** or **b**.
- ② Place the device against the wall and mark the drilling positions of the screw holes with a marker.
- ③ Use an impact drill to drill holes at the marked positions (with a diameter of about 8mm and a depth of about 60mm) and install expansion anchors.
- ④ Hang the device on the fixed expansion anchors with the mounting ears, then tighten the flange nuts.

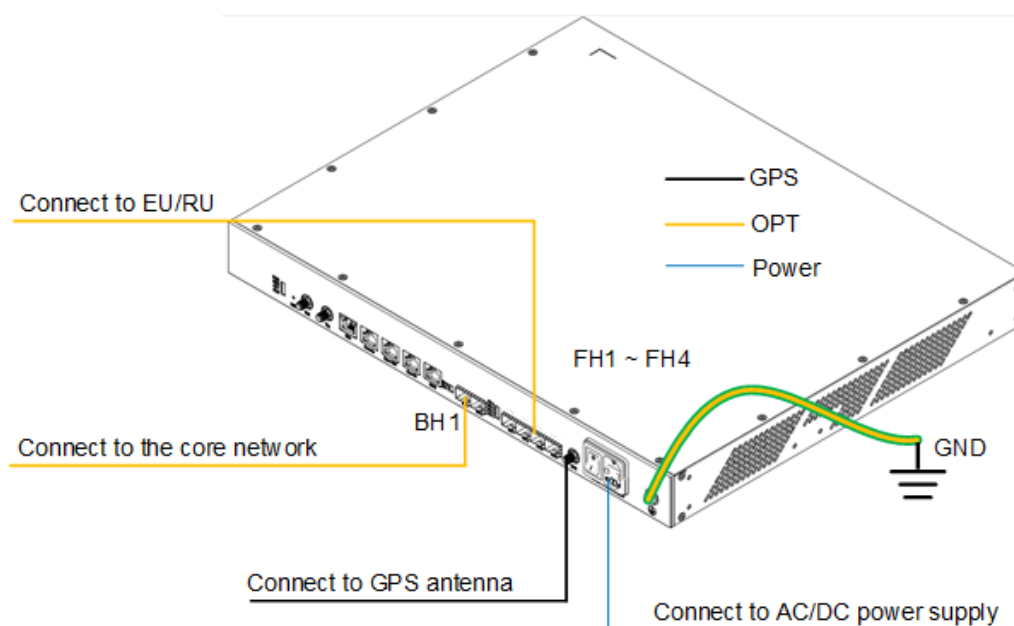
2.4 Cabinet Installation

The BBU standard 19-inch rack-mounted device. Customers need to prepare a cabinet that meets the requirements of the device's size and load-bearing capacity.



- ① Fix the mounting ears to the holes on both sides of the device with **countersunk screws** (the mounting lugs support front-back and positive-negative adjustment). Then, according to the depth of the cabinet, fix the **shoulder screws** to appropriate screw holes at the rear ends of both sides of the device, with one screw fixed on each side.
- ② Insert the cage nuts into appropriate slots of the pillars on both sides at the rear of the cabinet, then fix the rear limiting frame with crown screws.
- ③ On the pillars on both sides at the front of the cabinet, insert cage nuts corresponding to the slots of the rear limiting frame. Then slowly push the device into the cabinet, confirm that the shoulder screws on both sides slide into the guide slots of the rear limiting frame, and finally lock the device with crown screws.

2.5 Cable Connection



NOTE:

1. Connect to the corresponding power supply based on the BBU model.
2. If only one EU/RU is connected, use FH1 first. If multiple EU/RUs are connected, use FH1, FH2, FH3, and FH4 in sequence.

2.6 Power ON

Power on the BBU, then wait a few minutes while it boots up. Per the previous figures, check that the LED indicators are lighting as expected.