

Grandstream Networks, Inc.

**GWN7062E(T) - Setting Up Mesh Using the SYNC
Button**



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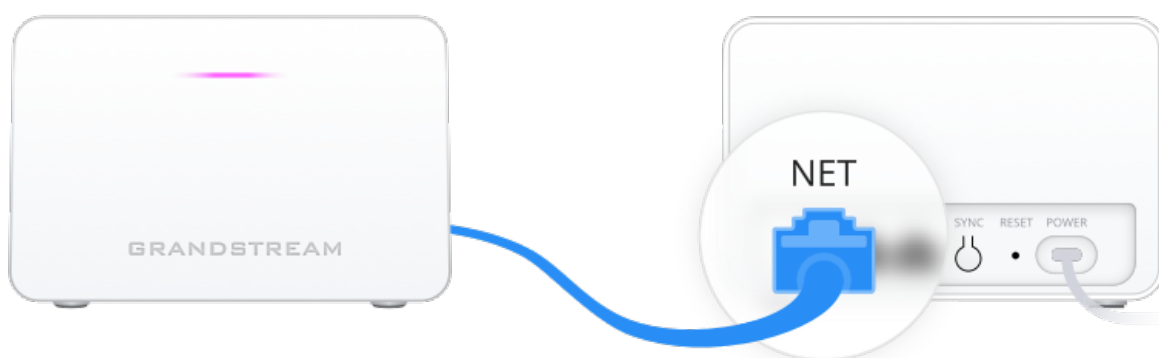
This guide outlines the process of establishing a Mesh network between GWN7062E(T) routers using both **wired and wireless pairing**, including the physical **SYNC button** method.

Before You Start

- Ensure both routers are powered on.
- Place the sub-router within 1 meter of the primary router for **wireless setup**. For **wired Mesh**, connect **any port** of the sub-router to the **LAN port** of the primary router.

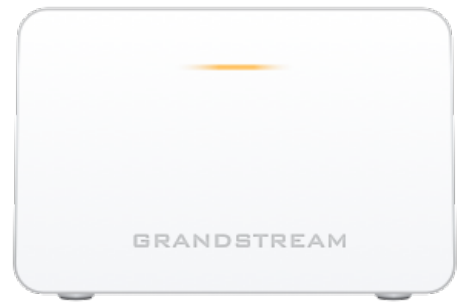
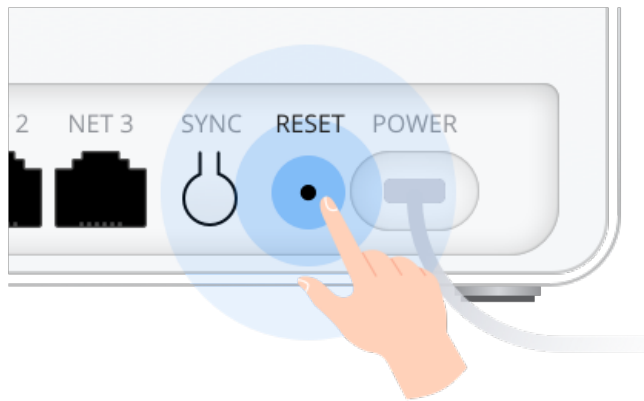


Mesh Wireless Setup



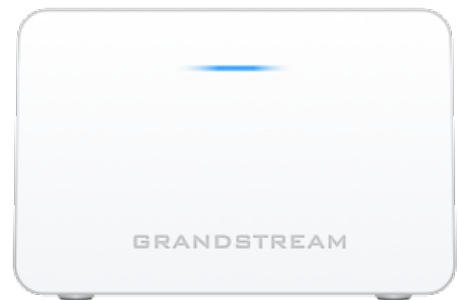
Mesh Wired Setup

- Connect the primary router to the internet via **WAN/uplink cable**.
- The sub-router must be factory reset. Hold the **RESET** button for about 10 seconds. If the indicator light turns **red** after releasing the button, the reset was successful. Then wait for the LED to start blinking **yellow**.



Sub Router blinking yellow after reset

- The primary router must complete its initial setup (**solid blue LED**).

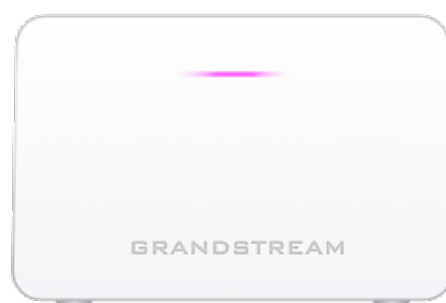
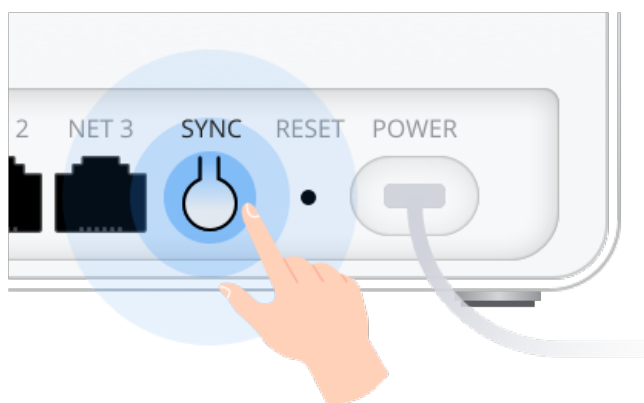


Primary router after completing initial setup

Step-by-Step Mesh Setup Using the SYNC Button

Step 1: Prepare the Sub-Router

1. **Factory reset** the sub-router (hold RESET button 10 seconds until **LED blinks yellow**).
2. While LED is blinking yellow, **double-press the SYNC button** on the sub-router.
3. After ~1 minute, the LED will turn **solid pink**, indicating Mesh pairing mode is active.



Sub Router Double press SYNC while LED blinks yellow

Step 2: Initiate Discovery (Primary Router)

1. **Press and hold** the SYNC button on the **primary router** for **3 seconds** (LED should be solid blue before starting).
2. The LED will start flashing **pink slowly** to indicate it is scanning for Mesh nodes.

Once the sub-router is detected, the main router automatically adds it, and the LEDs on both devices will flash **pink rapidly**.

- **Wired connection:** No further action needed, pairing will complete automatically.
- **Wireless connection:** Press and hold the SYNC button on the sub-router for 3 seconds to finalize pairing.

1. If the sub-router was prepared correctly, both LEDs should turn **solid pink** (pairing in progress).

Step 3: Pairing Completion

1. After a few minutes, if pairing is successful, both routers will show **solid blue**.
2. If pairing fails (**LED turns red**), repeat the SYNC steps.

Final Step: Relocate the Sub-Router

- **Wireless mesh:** After pairing, unplug the sub-router and place it where you need to extend Wi-Fi coverage (ideally within one wall of the main router). Plug it in and wait for the LED to turn **solid blue**.
- **Wired mesh:** The sub-router can be installed in its final location from the start. The Ethernet link works at any distance, so no relocation is required after pairing.

Mesh LED Indicator Reference

LED Color	Router Role	Description
Yellow (blinking)	Sub-router	Brand new or factory reset. Not provisioned. Not connected. Waiting for user to double-press SYNC to enter Mesh pairing mode.
Pink (solid)	Sub-router	SYNC button was double-pressed. Device entered Mesh pairing mode.

Pink (blinking slowly)	Primary	Scanning for nearby sub-routers (discovery in progress).
Pink (blinking rapidly)	Sub-router	Wireless sub-router waiting for pairing confirmation.
Pink (solid)	Both	Routers are actively pairing. SYNC accepted.
Blue (solid)	Primary	WAN/uplink connected and initial setup complete (router ready)
Blue (both)	Both	Mesh connection successful. Network is active and stable.
Red (solid)	Either	Pairing failed. Retry factory reset and SYNC.

Mesh Color Code
