ZYRO MESH User Manual

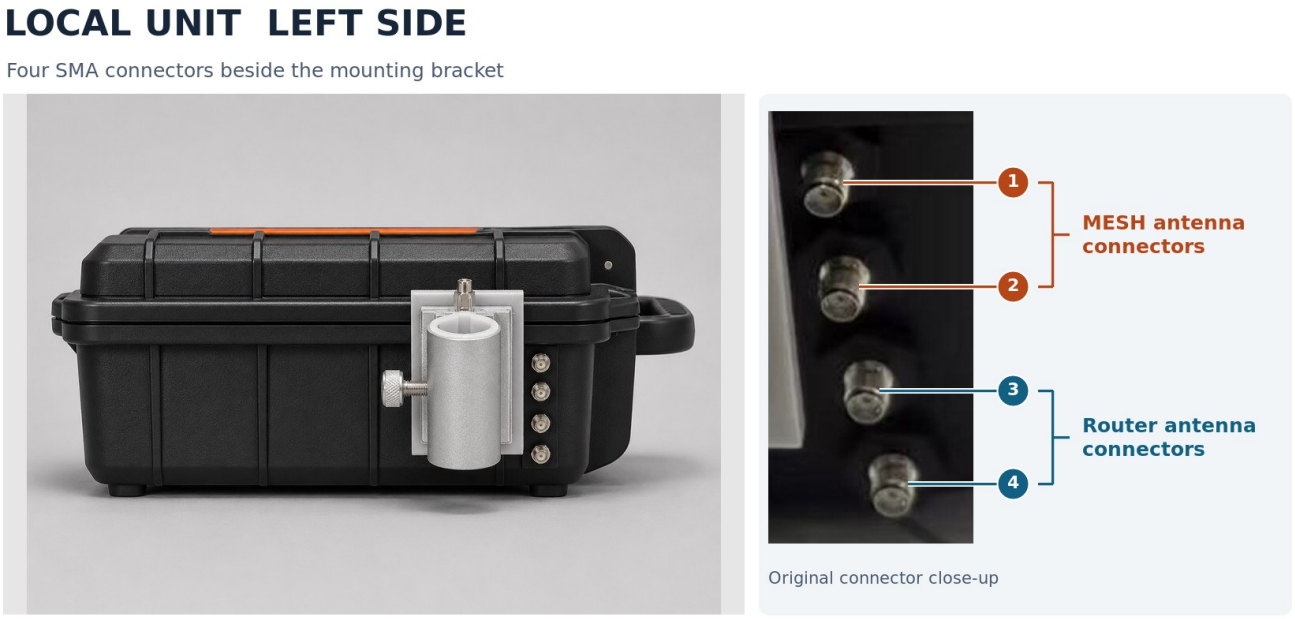
For the local and remote case units. Identify each unit by its SMA connector location, then follow the panel, antenna and network connection instructions.

Case overview

Place the case flat. Face the handle and latches to identify the front, left and right sides.



Local unit left side



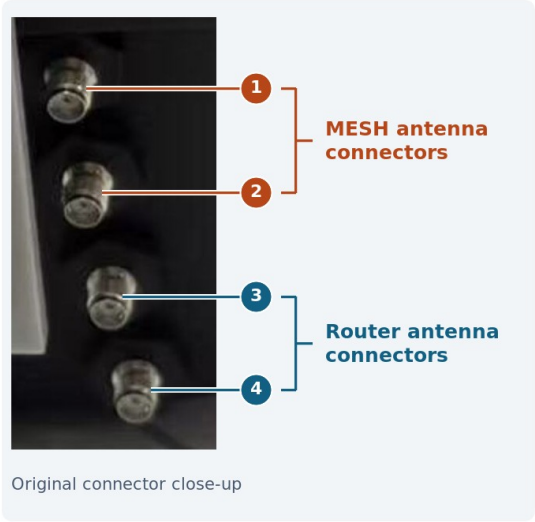
Identify the local and remote units

Viewed from the front, the local unit has its SMA connectors on the left side. The remote unit has its SMA connectors on the front right.

LOCAL UNIT

SMA connectors on the left side



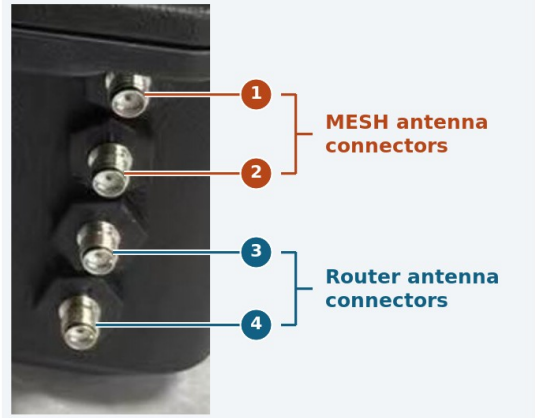


Original connector close-up

REMOTE UNIT

SMA connectors on the front right





Original connector close-up

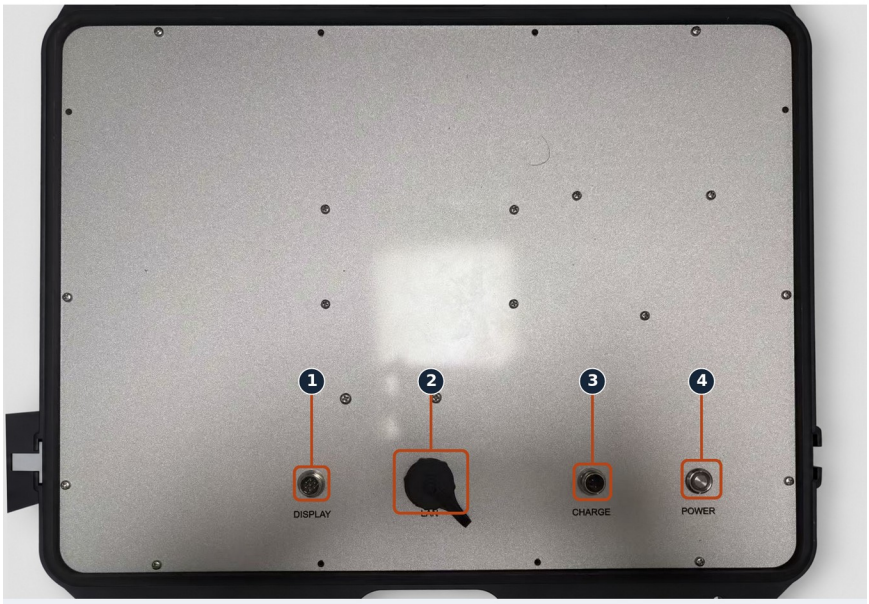
Number the connectors from top to bottom. Connect the MESH antennas to ports 1 and 2, and the router antenna to ports 3 and 4.

Place the local unit at the operator or upstream network location and the remote unit at the remote access location. The two units communicate over the MESH wireless link.

Internal panel and operation

Release the front latches and open the lid. Face the handle side of the case to identify the four panel items.

INTERNAL PANEL



1 Battery check DISPLAY
2 Ethernet LAN
3 Charging CHARGE
4 Power switch POWER

No.	Panel marking	Function and operation
1	DISPLAY Battery check	Connect the battery test module, then press TEST once. See page 4.
2	LAN Ethernet	Local unit: connect the upstream Internet network. See page 8. Remote unit: for debugging; normally left disconnected.
3	CHARGE Charging	Use the supplied power adapter and DC-to-aviation adapter lead. See page 7.
4	POWER Power switch	Switch the MESH unit on or off.

Connect and go online

1. Fit the antennas Use the SMA assignments on page 2.

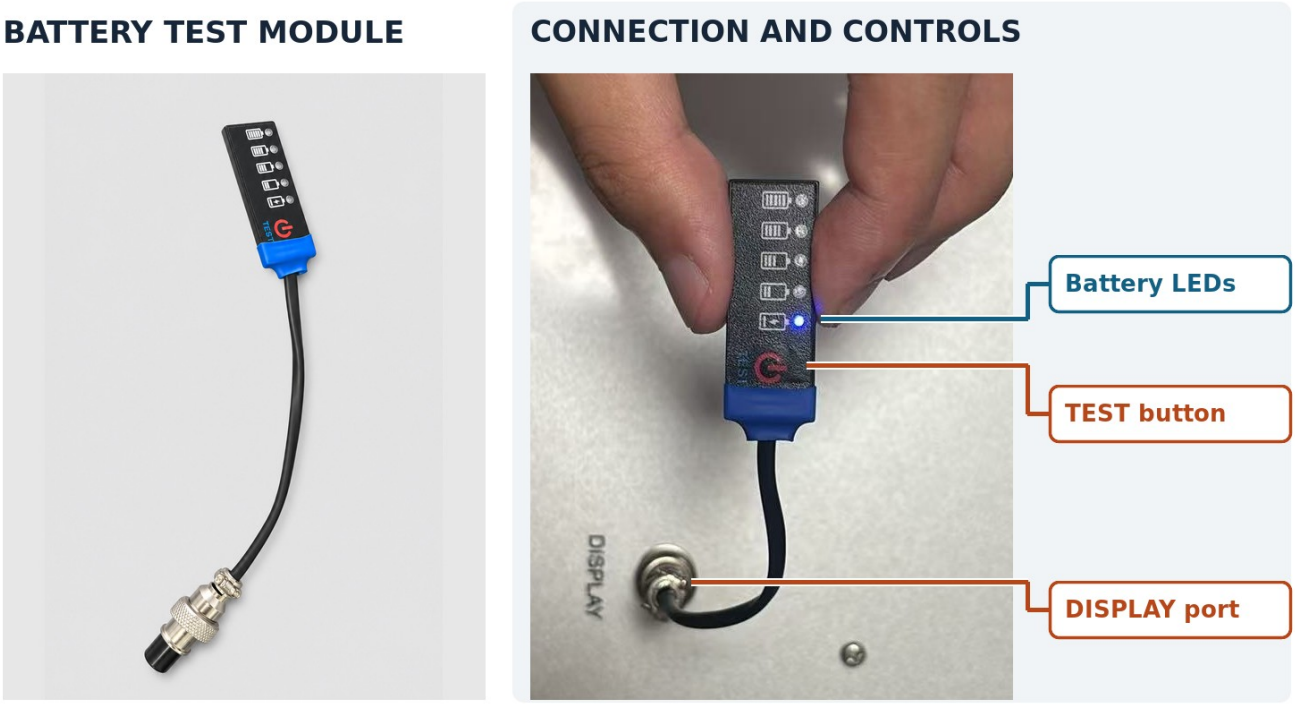
2. Connect the local unit Connect LAN to an Internet-enabled network, such as a LAN port on the main router.

3. Power on both units Turn on both POWER switches and allow the MESH link to establish.

4. Connect over remote Wi-Fi Connect a phone or computer to the remote router Wi-Fi to access the Internet.

Check the battery level

Open the lid and locate the round connector marked DISPLAY.



1. Plug in the battery test module Connect its round plug to the DISPLAY connector on the internal panel.

2. Press TEST once After connection, press the TEST button once and read the battery level shown by the indicator LEDs.

Identify the accessories

Identify the accessories below. Four extension feed cables are supplied: two 1 m cables and two 2 m cables.



MESH antennas

Upper SMA ports 1 and 2



Antenna clamp

Holds antennas on the pole



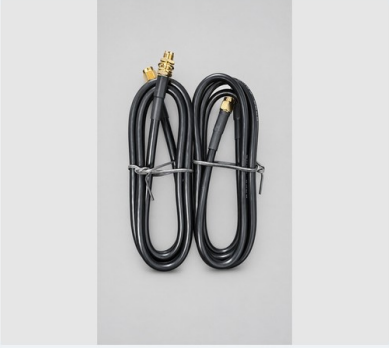
Router antenna

Lower SMA ports 3 and 4



Telescopic pole

Supports the antenna assembly



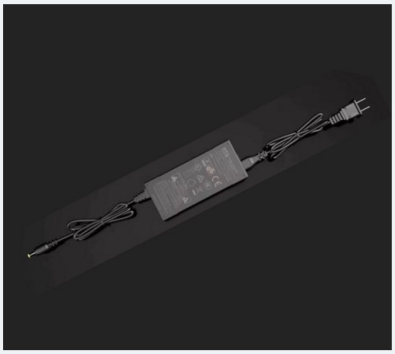
Extension feed cables

2 x 1 m and 2 x 2 m



Case side bracket

Secures the telescopic pole



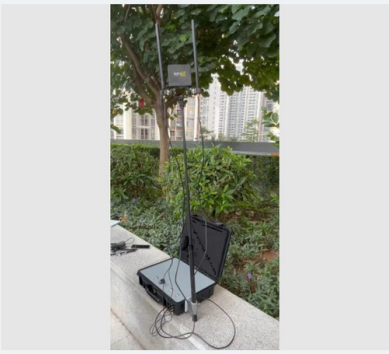
Power adapter

Reference output 25.2 V / 2.0 A



DC to aviation adapter lead

1 piece; connects to CHARGE

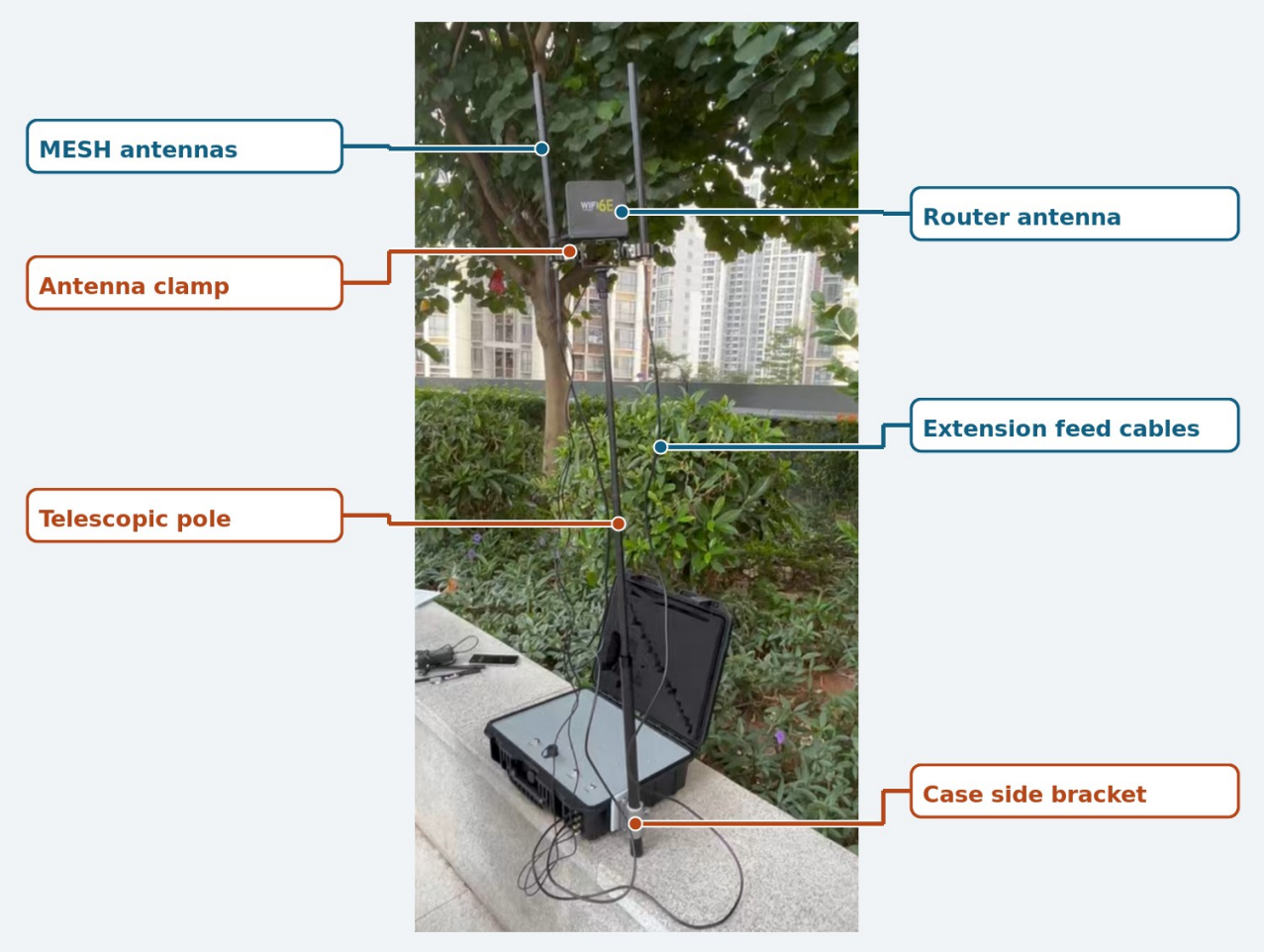


Field setup

Complete assembly example

Field setup

The field photograph shows the two MESH antennas, router antenna, clamp, telescopic pole and case arrangement.



1. Secure the pole Insert the telescopic pole into the round opening of the case side bracket and tighten the side thumbscrew.

2. Fit the antennas Attach the antenna clamp at the top of the pole. Arrange the two MESH antennas and router antenna as shown.

3. Connect the antennas Use upper SMA ports 1 and 2 for MESH, and lower ports 3 and 4 for the router antenna. Add the corresponding extension feed cables where needed.

4. Connect the network After checking the antenna connections, follow page 3 to connect the local network, power on both units and join the remote Wi-Fi.

Connect the power adapter for charging

Use the supplied power adapter and DC-to-aviation adapter lead. The supplied adapter information specifies an output of DC 25.2 V / 2.0 A.

POWER ADAPTER

Reference output DC 25.2 V / 2.0 A



DC TO AVIATION ADAPTER LEAD



DC socket to adapter; aviation plug to CHARGE.

CHARGING INDICATOR

- **RED** Charging
- **GREEN** Fully charged

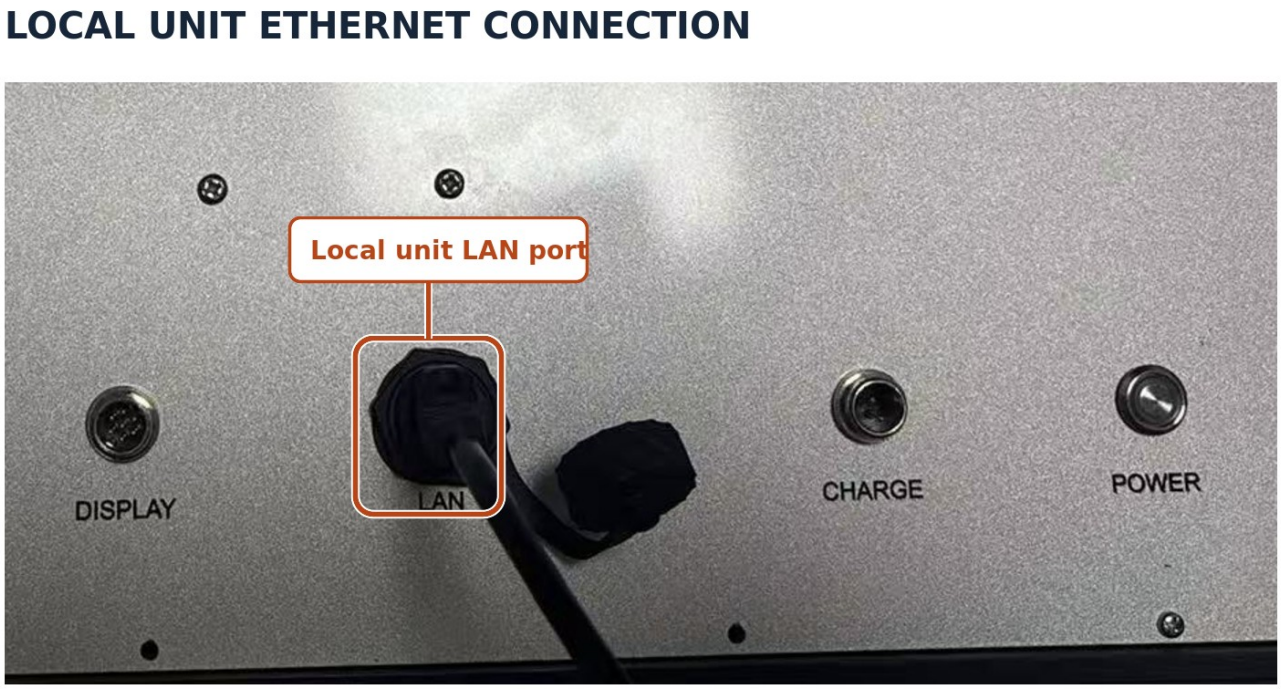
1. Connect the adapter Insert the adapter DC barrel plug into the DC socket of the adapter lead.

2. Connect the case Connect the aviation plug to CHARGE on the internal panel, then connect the power adapter to AC power.

3. Check the indicator Red indicates charging. Green indicates that charging is complete.

Local unit Ethernet connection

Open the local unit LAN cover and insert the Ethernet cable. Connect the other end to an Internet-enabled network, such as a LAN port on the main router.



Once the MESH link is established, a phone or computer connected to the remote router Wi-Fi can access the Internet.

The remote LAN port is for debugging and is normally left disconnected.