# Milesight Industrial Router Technical FAQ

**Hardware**

Version V1.0



## 1. What are the functions of the MAIN and AUX cellular antenna connectors on UR32/UR35 routers?

**MAIN** is the primary cellular antenna connector and is required for establishing a cellular network connection.

**AUX** is the auxiliary cellular antenna connector, mainly used to improve signal reception, downlink performance, and network stability.

In most applications, connecting only the MAIN antenna is sufficient for normal operation. The performance improvement provided by the AUX antenna depends on the network environment and application scenario and is usually limited.

If better cellular performance or signal quality is required, it is recommended to connect both the MAIN and AUX antennas.

Some products, such as **UR41/UR41L and UR32/UR32S**, use a single-antenna design, which is sufficient for their intended application scenarios.

## 2. Does the lack of an AUX antenna connector affect the cellular performance of UR32L?

No. The AUX antenna is mainly used to improve signal reception and data transmission performance, but its impact on normal network connectivity and actual download speed is usually limited.

For the intended application scenarios of the UR32L, its single-antenna design is sufficient for most industrial communication requirements.

## 3. Do Milesight industrial routers support Cat 6 Ethernet cables?

Yes. Milesight industrial routers support Cat 6 (CAT6) Ethernet cables and are also backward compatible with standards such as Cat 5e.

However, using a higher-category Ethernet cable does not increase the maximum network speed supported by the router. The actual Ethernet speed is determined by the specifications of the router's Ethernet ports.

For example:

- **UR32 and UR35:** These models have 100 Mbps Ethernet ports. Even when using a Cat 6 cable, the maximum Ethernet speed is still 100 Mbps.
- **UR75:** This model has Gigabit Ethernet ports and can support speeds of up to 1 Gbps when using Cat 5e or Cat 6 cables.

Therefore, it is recommended to select Ethernet cables according to the specifications of the router's Ethernet ports. Higher-category cables may provide better cabling performance and compatibility, but they cannot exceed the speed limit of the Ethernet ports.

## 4. Which cellular antenna connector on UR75 should be connected first for the best performance? Should a better antenna be connected to a specific port?

No. The four cellular antenna connectors on the UR75 have the same function, with no primary or secondary priority.

Therefore, there is no need to prioritize a specific antenna connector or use a higher-performance antenna on any particular connector.

## 5. How many LAN ports can be configured as WAN ports on Milesight routers?

The LAN/WAN port configuration varies by model:

- **UR75:** Provides 1 fixed WAN port and 4 LAN ports. The LAN and WAN ports cannot be switched.
- **UR35:** The WAN port can be switched to LAN. It can therefore be configured as either 1 WAN + 4 LAN or 5 LAN.
- **UR32, UR32L, and UR32S:** One LAN port can be switched to WAN. They can therefore be configured as either 1 WAN + 1 LAN or 2 LAN.

## 6. Can an IP phone be connected to the LAN port of the UR35?

Yes. An IP phone can be connected to the LAN port of the UR35 and access the network through the router.

However, the UR35 only provides network connectivity. It does not function as a VoIP/PBX server and does not handle phone registration, call control, or phone management.

## 7. Does the UR75 5G support mmWave?

No. The 5G module used in the UR75 supports Sub-6 GHz 5G only and does not support 5G mmWave bands.

## 8. Can the eMMC storage capacity of Milesight routers be expanded?

No. The built-in eMMC storage capacity of Milesight routers cannot be expanded.

However, some models support external storage expansion:

- **UR32L/UR32S and UR41/UR41L:** External storage expansion is not supported.
- **UR32 and UR35:** Micro SD cards are supported for additional storage.

## 9. Do Milesight routers have an FXS port?

The UR35 provides an optional FXS port, which can be used to connect analog phones and other compatible analog telephone devices.

The FXS interface is optional, so its availability depends on the specific product model and order configuration.