Milesight Industrial Router Technical FAQ

Edge Computing

Version V1.0



1. Which router models support Python application development?

Currently, UR32 and UR35 support Python application development.

Users can develop and deploy custom applications based on the built-in Python runtime environment to implement functions such as data acquisition, protocol conversion, edge computing, and integration with third-party platforms.

UR32L, UR32S, UR41, and UR41L currently do not support Python application development.

For the supported Python versions, please refer to the Release Notes of the corresponding products:

Release Note > Hardware > 5G & Cellular > UR3x. View Milesight Release Notes

2. Do the UR32/UR35 support OpenWrt?

Yes. Milesight can provide customers with basic resources required for OpenWrt development, including the Bootloader and certain low-level drivers provided by the chipset vendor.

Please note that Milesight does not provide a complete, pre-installed standard OpenWrt system. Customers are responsible for building the OpenWrt system and developing the required protocols and applications.

If your project requires customized applications, please contact the Milesight sales or technical team with your specific requirements. We can help evaluate a suitable implementation approach.

3. Do Milesight industrial routers support Docker?

No. Milesight industrial routers currently do not support Docker.

Milesight routers are primarily designed for industrial communication and edge computing applications and support lightweight application development environments such as Python.

Since Docker typically requires more CPU, memory, and storage resources, a Docker container runtime environment is currently not provided.

If your project requires customized applications, please contact the Milesight sales or technical team with your specific requirements. We can help evaluate a suitable solution.

4. Can I use `opkg install` to install OpenWrt packages and run custom scripts?

No. Milesight routers do not support using `opkg` to install OpenWrt software packages.

If your project requires this functionality, please contact the Milesight sales or technical team with your specific application requirements. We can help evaluate a suitable solution.

5. Can the UR75 upload IP camera video to AWS S3 using the Python SDK?

This is generally not recommended.

The UR75 is primarily designed to provide network connectivity for IP cameras, rather than to function as a video recording or cloud storage gateway.

Uploading IP camera video to AWS S3 should typically be handled by the IP camera, NVR/VMS, or a cloud-based video platform, while the UR75 provides the required 4G/5G or Ethernet connectivity.

6. I have PLCs using PROFINET, PROFIBUS, and OPC UA. Can Milesight routers perform protocol conversion and forward the data to my platform?

The UR32 and UR35 support secondary development and can be used to develop custom applications.

However, the routers do not currently have built-in PROFINET, PROFIBUS, or OPC UA protocol stacks. If protocol conversion is required, the corresponding protocols and integration need to be developed by the customer.

If your project requires this functionality, please contact the Milesight sales or technical team with your specific application requirements. We can help evaluate a suitable implementation approach.

7. Why does the CLI command `show clock` display a different time from the Web GUI?

The `show clock` command displays the time in UTC (Coordinated Universal Time), while the Web GUI displays the local time according to the time zone configured on the router.

Therefore, the displayed times may be different due to the configured time zone, but they represent the same point in time.

8. Are there any length or character restrictions for the SMTP client password on the UR3x Series?

Yes. The SMTP client password supports a maximum of 31 characters.

It supports commonly used English letters, numbers, and ASCII characters (33–126), which generally meets the password requirements of most SMTP services.

9. Do the UR32/UR35 support RS485 data logging?

No. The UR32/UR35 currently do not support RS485 data logging as a built-in feature.

However, the UR32/UR35 support secondary development, allowing custom applications to be developed for RS485 data acquisition and logging based on specific project requirements.

If your project requires this functionality, please contact the Milesight sales or technical team with your specific application requirements. We can help evaluate a suitable implementation approach.