Milesight Industrial Router Technical FAQ

I/O & Serial Communication

Version V1.0



1. How can I switch between RS232 and RS485 on the UR32?

By default, the UR32 is shipped with the serial interface configured as RS485, and the serial function is disabled.

To configure the serial interface, log in to the Web GUI and go to:**Service > Serial Settings**

Enable the serial function, and then select RS232 or RS485 under Serial Type according to your application requirements.

2. Can AT commands be sent directly to the cellular module through the serial port?

No. The UR router does not support sending AT commands directly to the cellular module through the serial port.

For remote device management or control, you can use the SMS control function. The router supports predefined SMS commands for performing various management operations.

For detailed configuration instructions and supported SMS commands, please refer to:

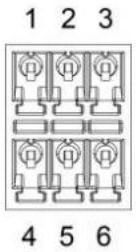
How to Send/Receive SMS and Achieve Remote Control

3. Can the RS232 interface of the UR32 be connected to a DB15 interface?

Yes. The UR32 provides an RS232 interface. If the target device uses a DB15 connector, an appropriate RS232 adapter cable or converter can be used.

The wiring must follow the Pin Assignment of both the UR32 and the target device.

Please refer to the figure below for the detailed interface pin definitions.



PIN	RS232 /RS485*	DI	DO	Description
1	---	---	OUT	Digital Output
2	---	IN	---	Digital Input
3	GND	GND	---	Ground
4	---		COM	Common Ground
5	RXD/B	---	---	Receive Data
6	TXD/A	---	---	Transmit Data

4. How can a CAN Bus device be connected to the UR32?

The UR32 does not have a native CAN Bus interface.

To connect a CAN Bus device, it is recommended to use a CAN-to-RS485 or CAN-to-Modbus RTU converter, and then connect the converter to the RS485 interface of the UR32 for communication.

5. Can the UR32/UR35/UR75 send notifications when the DI status is triggered, such as SMS or email?

Yes. When a DI (Digital Input) reaches a predefined trigger condition, the UR32/UR35/UR75 can automatically send an SMS or email notification.

In addition, DI can be used to trigger other actions, such as DO output and Cellular Up.

For detailed instructions on triggering SMS or email via DI, please refer to the Trigger SMS and Trigger Email sections of:

How to Use DI on Milesight Routers

6. Can the Digital Output (DO) only be triggered by the Digital Input (DI)?

No. In addition to DI triggers, the Digital Output (DO) on the UR32/UR35/UR75 can also be controlled via:SMS,Modbus commands,CLI commands

For detailed instructions on triggering DO via DI, please refer to the Trigger DO section of:

How to Use DI on Milesight Routers

7. Can the DI (Digital Input) trigger a phone call?

No. The UR32/UR35/UR75 currently support DI-triggered actions such as SMS, Email, DO, and Cellular Up, but do not support triggering a voice call via DI.