



Network Tools Introduction

For scenarios where serial port usage is inconvenient, we provide two network-based tools to facilitate parameter configuration (netat.exe) and log viewing (netlog.exe) for customers. Note that both tools only work with bridge firmware version 12954 and later.

Network Configuration Requirements

Important: Before using these tools, ensure that the PC and bridge device are configured in the same network segment:

- **PC IP Configuration:** Configure your PC with a static IP address in the 192.168.1.x range (e.g., 192.168.1.100)
- **Device IP:** The bridge device typically uses 192.168.1.1 as default IP address
- **Subnet Mask:** 255.255.255.0
- **Network Connection:** Use a direct Ethernet cable connection between PC and device, or connect both to the same network switch

Network Setup Steps:

1. Connect the bridge device and PC with an Ethernet cable
2. Configure PC network adapter with static IP (e.g., 192.168.1.100, subnet mask 255.255.255.0)
3. Verify connectivity by pinging the device IP address
4. Check firmware version is 12954 or later before proceeding

Netat.exe

Use netat.exe when you need to configure bridge parameters using AT+ commands.

Usage Steps:



1. Ensure PC and device are in the same network segment (see Network Configuration Requirements above)
2. Double-click to run netat.exe
3. Enter the PC's IP address when prompted
4. The tool will display the MAC address of connected devices
5. If only one device is connected, it will auto-select device 1
6. If multiple devices are connected through a switch, select the target device by entering the corresponding number

After selecting the device, you can enter AT commands to execute them. The usage is consistent with serial port operations.

Example AT Commands:

- AT+MODE=ap - Set to AP mode
- AT+SSID=test_network - Set network name
- AT+CONN_STATE - Check connection status

Netlog.exe

Use netlog.exe when you need to view the bridge's debug logs via Ethernet connection.

Usage Steps:

1. Ensure PC and device are in the same network segment (see Network Configuration Requirements above)
2. Connect the bridge device and PC with a direct Ethernet cable
3. Double-click to run netlog.exe
4. Enter the PC's IP address when prompted
5. The tool will automatically print debug logs from the connected device

Important Limitations:

- Only displays logs from devices connected via Ethernet
- **Do not use a network switch** when using netlog.exe - only direct cable connection is supported
- Only one device can be monitored at a time



Troubleshooting

Common Issues:

1. Tool cannot detect device:

- Verify PC and device are in the same network segment
- Check Ethernet cable connection
- Confirm device firmware version is 12954 or later
- Try pinging device IP address (usually 192.168.1.1)

2. Multiple devices not showing:

- Ensure all devices are connected to the same network switch
- Verify each device has a unique IP address
- Check that all devices have compatible firmware versions

3. Netlog.exe not showing logs:

- Use direct cable connection only (no switch)
- Ensure only one device is connected
- Verify network configuration is correct

Network Configuration Check:

- Use ipconfig (Windows) or ifconfig (Linux/Mac) to verify PC IP settings
- Use ping 192.168.1.1 to test device connectivity
- Check Windows Firewall settings if connection fails