



# Trimble R750 GNSS Receiver

## WebUI Connection Guide — Wi-Fi & Ethernet (Direct Cable) Methods

The Trimble R750 GNSS Smart Antenna includes a built-in web interface (WebUI) accessible from any standard browser — no software installation required. Use the WebUI to check firmware version, view and activate options, configure base/rover operation, monitor satellite tracking, and manage network settings. This guide covers both connection methods available on the R750.

■ **NOTE:** The R750 WebUI requires the receiver to be powered on and connected. The receiver takes approximately 60–90 seconds to fully boot before the WebUI becomes accessible.

## ■ R750 Connectivity Overview

The R750 supports two methods for WebUI access. Understanding which ports and LEDs to look for will help you connect successfully:

Feature	Details
Wi-Fi	Built-in 2.4 GHz 802.11 b/g/n access point — no router needed
Ethernet	Via Trimble LEMO data cable (P/N 54693-00) with RJ-45 breakout
WebUI Port	HTTP port 80 (standard browser — no special port needed)
Browser Support	Chrome, Edge, Firefox, Safari — any modern browser
LED Indicator	Wi-Fi LED glows steady when hotspot is active and ready

## ■ Default Login Credentials

These are the factory default WebUI credentials for the R750. Credentials are shared across both Wi-Fi and Ethernet connection methods.

Account	Username	Password
Admin (full access)	admin	password
Guest (read-only)	guest	guest



■ **NOTE:** If credentials have been changed and are unknown, a factory reset via the receiver's power button hold sequence will restore defaults. This will also reset all network and configuration settings.

## ■ Method 1 — Wi-Fi Connection (Wireless)

The R750 broadcasts its own Wi-Fi access point when powered on. Connect your laptop, tablet, or phone directly to the receiver's hotspot — no router or external network infrastructure required.

### Power on the R750

Press and hold the power button until the LED indicators illuminate.  
Allow 60–90 seconds for the receiver to fully boot.  
The Wi-Fi / radio LED should glow steady white when the hotspot is active.

### Find and connect to the R750 Wi-Fi network

On your computer or tablet, open Wi-Fi settings.  
Look for a network named: Trimble GNSS XXXX  
(where XXXX = last 4 digits of the serial number — check the label on the unit).  
Select the network and enter the Wi-Fi passphrase when prompted.

■ **TIP:** Default Wi-Fi SSID: Trimble GNSS XXXX (XXXX = last 4 digits of serial number) | Default Wi-Fi Password (firmware before v6.43): abcdeabcde

■ **NOTE:** Firmware v6.43 and later: The Wi-Fi access point password is the full device serial number (e.g. 5810012345). This is CASE SENSITIVE — enter it exactly as printed on the receiver label. If abcdeabcde does not work, try the full serial number.

### Verify you are connected to the R750 — not your normal network

Your PC should show 'Connected' under the R750 network.  
You will lose internet access while connected to the receiver hotspot — this is normal.  
Disable any VPN software before proceeding.

### Open the WebUI in your browser

Launch Chrome, Edge, Firefox, or Safari.  
In the address bar, type the following IP and press Enter:

```
http://192.168.142.1
```

### Log in to the WebUI

The Trimble R750 login page will appear.  
Enter: Username: admin Password: password  
Click Log In to access the receiver dashboard.

■ **TIP:** If the page does not load, open a Command Prompt (Windows) and run: ping 192.168.142.1 — If you get replies, the receiver is reachable and the issue is browser-related. Try clearing browser cache or using incognito/private window.

### Wi-Fi Method — Quick Reference

Parameter	Value
SSID (network name)	Trimble GNSS XXXX (last 4 digits of serial)
Wi-Fi Password (firmware < v6.43)	abcdeabcde (factory default, firmware before v6.43)
Wi-Fi Password (firmware v6.43+)	Full serial number — CASE SENSITIVE
WebUI IP Address	192.168.142.1
WebUI URL	http://192.168.142.1
Port	80 (HTTP)
Admin Username	admin
Admin Password	password

## ■ Method 2 — Ethernet Direct Cable Connection

The R750 uses a LEMO 7-pin port for data, power, and Ethernet. A Trimble data cable (P/N 54693-00) breaks this out to a standard RJ-45 connector, enabling a wired connection to your laptop. This is the preferred method for WinFlash firmware upgrades and option file loading due to its stability and speed.

### Obtain the correct cable

You need the Trimble LEMO-to-Ethernet data cable (Trimble P/N 54693-00).  
One end is a LEMO 7-pin connector (plugs into the R750 data port).  
The other end is a standard RJ-45 Ethernet connector.  
A Trimble docking station or GEO cradle with Ethernet port also works.

### Connect the cable and power on the R750

Plug the LEMO end firmly into the R750 data port — align the red dot.  
Connect the RJ-45 end to your laptop's Ethernet port.  
If using a USB-C/USB-A to Ethernet adapter, plug that into your laptop first.  
Power on the R750 and wait 60–90 seconds for full boot.

■ **TIP:** When properly connected and booted, the Ethernet link LED on the cable adapter or your PC's network adapter should show a solid or blinking green link light.



### Set your PC Ethernet adapter to a static IP address

Windows: Right-click Start → Network Connections → right-click your Ethernet adapter → Properties.  
Select Internet Protocol Version 4 (TCP/IPv4) → click Properties.  
Choose 'Use the following IP address' and enter the values from the table below.  
Click OK → OK to save.

Field	Value to Enter
IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1 (or leave blank)
DNS Servers	(leave blank)

■ **TIP:** Mac users: System Settings → Network → select Ethernet → Details → TCP/IP tab → Configure IPv4: Manually → enter the same IP and subnet values above.

### Open the WebUI in your browser

Open Chrome, Edge, Firefox, or Safari.  
Enter the R750's default Ethernet IP address in the address bar:

`http://192.168.1.20`

■ **TIP:** The default Ethernet IP may vary if it was previously configured. If 192.168.1.20 does not respond, try 192.168.0.20 or 192.168.1.1. You can also check the current IP via the Wi-Fi WebUI under Settings → Network.

### Log in

The R750 WebUI login page will load.  
Username: admin | Password: password  
Click Log In to enter the dashboard.

■ **TIP:** Recommended: disable Wi-Fi on your PC while using the Ethernet connection to prevent Windows from routing traffic over the wrong adapter.

## Ethernet Method — Quick Reference



Parameter	Value
Required Cable	Trimble LEMO-to-Ethernet P/N 54693-00
R750 Port	LEMO 7-pin data port (red dot alignment)
PC Static IP	192.168.1.100
PC Subnet Mask	255.255.255.0
R750 WebUI IP	192.168.1.20 (factory default)
WebUI URL	http://192.168.1.20
Admin Username	admin
Admin Password	password

## ■ WebUI Dashboard — Key Sections

Once logged in, the R750 WebUI provides full control over the receiver. Below are the primary navigation tabs and their functions:

Tab / Section	What You Can Do
Status	View satellite tracking, signal levels, fix type (RTK/SBAS/Autonomous), uptime, and current position.
Configuration	Set receiver operating mode (Rover / Base / Repeater), configure I/O ports, NMEA/CMR/RTCM message output.
Firmware	Check installed firmware version and board revision. Initiate OTA firmware updates.
Options	View all licensed feature options (constellations, RTK, logging, radio, etc.) and load new option files.
Network	Configure Wi-Fi SSID/password, Ethernet IP, NTRIP client/server settings, and Bluetooth.
Files	Access internally logged raw GNSS data files — browse, download, or delete log sessions.
Admin	Change WebUI password, reboot the receiver, perform factory reset, view system log.

## ■ Troubleshooting



Problem	Likely Cause	Fix
R750 Wi-Fi not visible in network list	Receiver still booting or Wi-Fi disabled	Wait 90 sec after power-on. Confirm Wi-Fi LED is steady. Power cycle if needed.
Browser: 'This site can't be reached'	PC not on receiver subnet / wrong IP	Confirm PC is connected to R750 hotspot. Ping 192.168.142.1 from Command Prompt.
Wi-Fi password rejected	Firmware v6.43+ changed default password	Enter the full serial number as the password — it is CASE SENSITIVE.
Login page won't accept credentials	Password was changed from factory default	Try 'trimble' or 'abcdeabcde'. Factory reset restores defaults.
Ethernet: no link light on adapter	Wrong cable type or damaged LEMO pin	Verify cable P/N 54693-00. Inspect LEMO pins — bent pins are common on used units.
Ethernet: page loads then drops connection	IP conflict or Windows reverting to DHCP	Confirm static IP is saved. Disable Wi-Fi on PC to force Ethernet routing.
WebUI loads blank or partially	Browser cache / compatibility	Hard-refresh: Ctrl+Shift+R (Win) / Cmd+Shift+R (Mac). Try incognito/private window.
WinFlash can't see the R750 over Ethernet	WinFlash using wrong IP or firewall blocking	Set WinFlash connection IP to 192.168.1.20. Temporarily disable Windows Firewall.

## Need Help? Contact 9JA Enterprise

<p>■ Website</p> <p>www.9ja.tools</p>	<p>■ Phone</p> <p>1-866-210-6660</p>	<p>■ eBay Store</p> <p>Search: 9JA Enterprise Tools</p>	<p>■ Location</p> <p>Houston / Hempstead, TX</p>
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