

Trimble R780 GNSS Receiver

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

The Trimble R780 GNSS receiver includes a built-in web interface (WebUI) accessible from any browser — no software installation required. Use the WebUI to check firmware version, manage options, configure base/rover mode, monitor satellites, and more. This guide covers both connection methods supported by the R780.

■ Default Login Credentials

These are the factory default credentials for the R780 WebUI. Change the password after first login for security.

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 sequence will restore defaults. Consult the R780 user guide for the reset procedure.

■ Method 1 — Wi-Fi Connection (Wireless)

The R780 broadcasts its own Wi-Fi access point by default. No router or external network is needed — connect your laptop or tablet directly to the receiver's hotspot.

Power on the R780

Press and hold the power button until the LED ring illuminates.

Wait ~60 seconds for full boot. The Wi-Fi LED (radio icon) should glow steady white.

Connect your computer/tablet to the R780 Wi-Fi

Open your OS Wi-Fi settings (Windows: system tray → Network icon).

Look for the network named: Trimble GNSS XXXX (where XXXX = last 4 digits of the serial number).

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.

Open the WebUI in your browser

Open Chrome, Edge, Firefox, or Safari.

Type the following address in the URL bar and press Enter:

```
http://192.168.142.1
```

Log in

The WebUI login page will appear.

Enter username: admin and password: password

Click Log In to access the dashboard.

■ **TIP:** If the page does not load, disable any VPN on your computer and ensure no other network adapter is set as default. Try pinging 192.168.142.1 from a command prompt to verify connectivity.

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 R780 has a LEMO 7-pin port that carries RS-232 and power, and also supports Ethernet via a Trimble data cable (P/N 54693-00 or equivalent) that breaks out to an RJ-45 connector. This method gives a faster, more stable connection — ideal for firmware flashing (WinFlash) or bulk data transfer.



Gather required cable

You need the Trimble R780 LEMO-to-Ethernet data cable (P/N 54693-00).
One end plugs into the R780 LEMO 7-pin port; the other end is a standard RJ-45.
Alternatively, a Trimble Geo adapter or docking cradle with Ethernet port also works.

Power on the R780

Press and hold the power button. Wait ~60 seconds for full boot.
The Ethernet port on the cable/cradle should show a link LED once connected.

Connect the Ethernet cable to your computer

Plug the RJ-45 end into your laptop's Ethernet port (or a USB-to-Ethernet adapter).
Windows will detect a new Local Area Connection.

Set your PC to a static IP address

Go to: Control Panel → Network & Sharing Center → Change adapter settings.
Right-click your Ethernet adapter → Properties → Internet Protocol Version 4 (TCP/IPv4) → Properties.
Select 'Use the following IP address' and enter the values below:

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	(leave blank)

Open the WebUI in your browser

Open Chrome, Edge, Firefox, or Safari.
Enter the R780's default Ethernet IP address:

`http://192.168.1.20`

■ **TIP:** The default Ethernet IP may vary by unit configuration. If 192.168.1.20 does not respond, try 192.168.0.20 or check the IP in the R780 web interface under Settings → Network (if Wi-Fi access is still available).

Log in

The login page will appear — same credentials as Wi-Fi.
Username: admin | Password: password
Click Log In.



■ **TIP:** Ethernet is recommended when running WinFlash firmware upgrades or loading large option files, as it is significantly more stable than Wi-Fi for sustained data transfer.

■ WebUI Dashboard — Key Sections

Once logged in, the R780 WebUI home screen gives you full visibility and control over the receiver. Below are the main tabs and what you can do in each:

Tab / Section	What You Can Do
Status	View satellite tracking, signal strength, fix type, position, and uptime.
Configuration	Set receiver mode (Rover / Base / Repeater), I/O port settings, NMEA/CMR output.
Firmware	Check installed firmware version; initiate OTA firmware update.
Options	View licensed options (GNSS constellations, RTK, logging, etc.).
Network	Configure Wi-Fi, Ethernet IP, NTRIP client/server, and Bluetooth.
Files	Browse logged raw data files; download or delete GNSS log files.
Admin	Change WebUI password, reboot receiver, factory reset.

■ Troubleshooting



Problem	Likely Cause	Fix
Wi-Fi network not visible	Receiver not fully booted / Wi-Fi disabled	Wait 90 sec after power-on. Check receiver's Wi-Fi LED.
Browser: 'site can't be reached'	Wrong IP or PC not on receiver subnet	Verify PC is connected to R780 hotspot. Ping 192.168.142.1.
Wi-Fi password rejected	Firmware v6.43+ changed default password	Enter the full serial number as the password — it is CASE SENSITIVE.
Login fails with correct password	Password was previously changed	Try 'trimble' or 'abcdeabcde'. Last resort: factory reset.
Ethernet: no link LED on cable	Wrong cable or damaged LEMO pin	Verify cable P/N 54693-00. Inspect LEMO connector pins.
Ethernet: page loads but then drops	IP conflict or PC reverting to DHCP	Confirm static IP is saved. Disable Wi-Fi on PC while using Ethernet.
WebUI shows blank / partially loads	Browser cache issue	Hard-refresh: Ctrl+Shift+R (Win) or Cmd+Shift+R (Mac). Try incognito mode.

■ Need Help? Contact 9JA Enterprise

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