



TVG 850

IN-VEHICLE WI-FI® ACCESS COMBINED WITH VEHICLE DIAGNOSTICS AND LOCATION TRACKING

The Trimble Vehicle Gateway 850 (TVG 850) is designed to meet the most demanding enterprise-class applications. Companies who implement the TVG 850 gateway receive faster access to field data.

The TVG 850 includes advanced diagnostics and Global Positioning System (GPS) location awareness technologies. The TVG 850 also includes Wi-Fi and a wireless router to securely connect a mobile technician's laptop or any Wi-Fi capable client device(s). Mobile organizations using the enhanced TVG 850 can access the Internet, connect to a Virtual Private Network (VPN), obtain vehicle diagnostics data, and setup a vehicle area network that other Wi-Fi peripherals, such as a laptop, can use for more integrated performance.

With multiple external serial ports, such as a driver display for messaging and communications, switches, sensors or other peripheral hardware devices can be connected to the TVG 850 to send messages and forms to the back office or notify users of Power Take Off (PTO) engagement or disengagement, doors open or closed and other events.

SOLUTIONS THAT USE THIS HARDWARE:

- ▶ Trimble Fleet Management
- ▶ Trimble Driver Safety
- ▶ Trimble Work Management
- ▶ Trimble Driver Logs

Key Features

- ▶ 3G wireless communication with antenna diversity
- ▶ 12-channel GPS receiver
- ▶ 802.11 b/g access point
- ▶ 10/100 Base-T Ethernet port
- ▶ Two RS-232 ports
- ▶ Dedicated vehicle diagnostics port compatible with established vehicle diagnostics protocols
- ▶ Four digital sensor service input ports
- ▶ USB 2.0 port for field upgrades
- ▶ Over-the-air upgradeable
- ▶ LEDs for system status

▶ 10/100 BASE-T ETHERNET

▶ RS-232 CONNECTORS

▶ CELLULAR, WI-FI, GPS, FAKRA ANTENNA CONNECTORS

▶ USB 2.0 PORT



▶ LED SYSTEM STATUS INDICATOR

▶ VEHICLE DIAGNOSTICS CONNECTOR

▶ DIGITAL I/O CONNECTOR

▶ VEHICLE POWER CONNECTOR (POWER/IGNITION/GROUND)



PHYSICAL

Dimensions 140mm x 210mm x 40mm (excluding mounting tabs)
 Weight 0.78 kg
 Material Cast Aluminium with black powder coat finish
 Electrical Supply Voltage 9 to 32V DC
 Voltage Tolerance Complies to ISO7637-2
 Power Consumption Typical Supply Current 14V Active: 550mA
 Supply Current 14V Hibernate: 10mA
 Ignition Sense Input 0 to 32V DC

ENVIRONMENT

Operating Temperature -25°C to +60°C
 Storage Temperature -40°C to +85°C
 Humidity 5-95% non-condensing

RECEIVER

GPS Receiver L1 (1575.42 MHz), C/A code, 12-channel, continuous tracking receiver

WIRELESS COMMUNICATIONS

- 802.11 b/g access point
- UMTS/HSPA/EDGE/GPRS/GSM (HSPA version)
- EV-DO Rev A/1xRTT (CDMA version)

NETWORK SECURITY

- PAP/CHAP Authentication
- Dynamic keys
- 64 and 128 bit WEP Encryption
- MAC filtering
- 802.1x (EAP-TLS, EAP-PEAP)
- Routing: NAT, RNAT
- Firewall: SPI, packet filter
- System Status LEDs
- Password protected web management, HTTP or 128 bit HTTPS

PERIPHERAL & I/O OPTIONS

- USB Port for firmware upgrades
- 10/100 Base-T Ethernet
- Serial Interface Two RS-232 serial ports at up to 115.2K Baud
- Digital Input Four digital inputs)

VEHICLE DIAGNOSTICS

- J1850 PWM
- J1850 VPW
- ISO9141-2
- ISO14230-4/KWP2000
- ISO15765-4 (OBDII CAN)
- J1708
- J1939

ENVIRONMENTAL COMPLIANCE

- RoHS
- WEEE

COMPLIANCE/CERTIFICATIONS

CDMA VERSION

- FCC Part 15 Class B
- Industry Canada / RSS-310

HSPA VERSION

- FCC Part 15 Class B
- Industry Canada / RSS-310
- CE
- AT&T Telstra
- EN-55022 Level 3 for radiated & conducted emissions

NETWORK OPERABILITY

- Sprint Verizon Vodafone

About us

Trimble Field Service Management provides visibility into field and fleet operations so businesses can streamline efficiency and increase productivity. The Field Service Management suite includes fleet management, work management and scheduling, worker safety and mobility solutions that transform the effectiveness of work, workers and assets in the field. The cloudbased portfolio allows Trimble to offer customers industry-specific, enterprise-level solutions for exceptional performance and ease of use.

Learn more

For more information on improving field and fleet productivity, visit:

www.trimble.com/fsm

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www.trimble.com/fsm

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