SPECIFICATIONS

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 and can view current work in progress which helps increase productivity.

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.

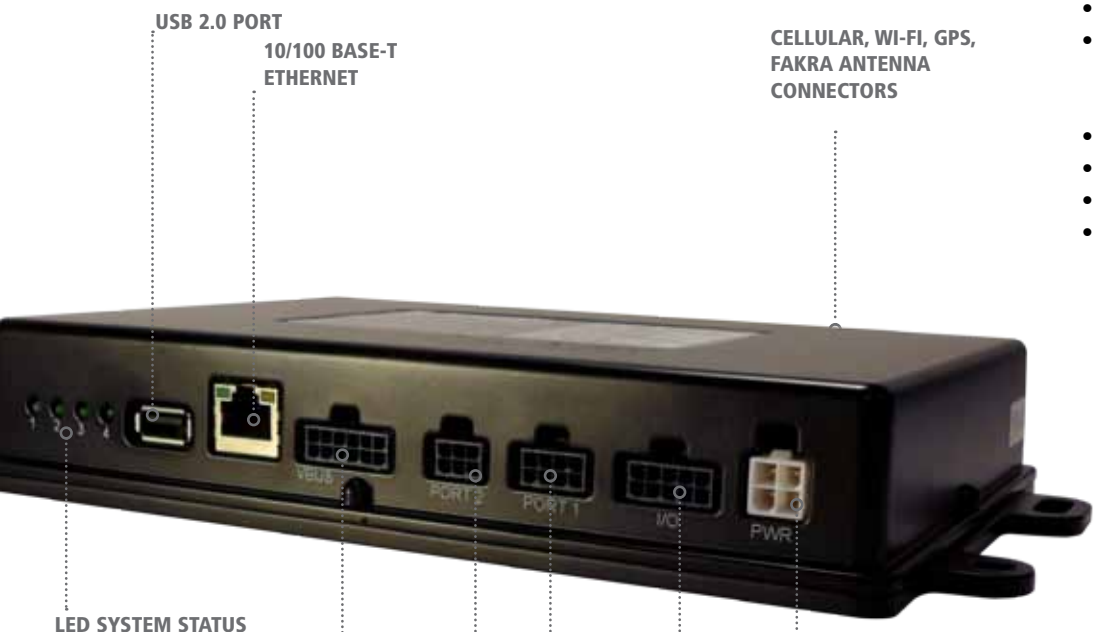
With multiple external serial ports, such as a driver display for messaging and communications, switches, sensors or other peripheral hardware devices can be connected to the TVG 850 to send messages and forms to the back office or notify users of Power Take Off (PTO) engagement or disengagement, doors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

SOLUTIONS THAT USE THIS HARDWARE

- **Trimble GeoManager Fleet Management**
- **Trimble GeoManager Driver Safety**
- **Trimble GeoManager Work Management**
- **Trimble GeoManager Driver Logs**

FEATURES

- 3G/2G 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



Trimble

PHYSICAL

Dimensions ..... 140mm x 210 mm x 40mm (excluding mounting tabs)
Weight ..... 0.78 kg
Material ..... Cast Aluminum 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

RECEIVERS

GPS ReceiverL1 (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
Password protected web management, HTTP or 128 bit HTTPS
System Status LEDs

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
EN-55022 Level 3 for radiated and conducted emissions
Industry Canada / RSS-310
CE
C-Tick
e-Mark
PTCRB

NETWORK OPERABILITY

Sprint
Verizon
Vodafone
AT&T
Telstra

Specifications subject to change without notice.

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AUTHORIZED DEALER INFO