The Trimble Vehicle Gateway 660 (TVG 660) in-vehicle hardware combines GPS and vehicle diagnostics with wireless technology providing real-time location and diagnostic information to companies that manage fleets of any size and that may use many types of vehicles.

SOLUTIONS THAT USE THIS HARDWARE:
- Trimble Work Management
- Trimble Driver Safety
- Trimble Fleet Management

Key Features:
- 12-channel GPS receiver
- Compatible with established vehicle diagnostic protocols
- Small form factor
- Network certified on multiple carriers
- Dedicated vehicle diagnostics port
- RS-232 port supports driver interface (DT 3000 or TDI 100)
- Digital I/O supports Sensor Services
- Over-the-air programmable

TVG 660
IN-VEHICLE LOCATION TRACKING COMBINED WITH VEHICLE DIAGNOSTICS
**PHYSICAL**
Dimensions .................................................. 140mm x 83mm (97mm w/FAKRA) x 30mm
Weight .............................................................. 0.25 kg
Material .............................................................. Aluminum
Electrical Supply Voltage ........................................ 8 to 32 V DC
Vehicular Transient Tolerance ............................... Vehicle power-line transient immunity per ISO7637-2
Power Consumption ..............................................
Typical (Non-transmitting) Supply Current 12V
Active: 100mA
Supply Current 12V Hibernate: 11mA
Typical Supply Current 24V Active: 65mA
Supply Current 24V Hibernate: 8mA
Ignition Sense Input .............................................. 0 to 32 V DC

**ENVIRONMENT**
Operating Temperature ...................................... -30 ºC to +70 ºC with reduced performance from -40 ºC to +80 ºC (EDGE versions)
-40 ºC to +80 ºC (CDMA versions)
-30 ºC to +80 ºC with reduced performance from -40 ºC to +80 ºC (HSPA version)
Storage Temperature ............................................ -40ºC to +85ºC (all versions)
Humidity .............................................................. 5-95% non-condensing

**RECEIVER**
GPS Receiver ............................................... L1 (1575.42 MHz), C/A code, 12-channel, continuous tracking receiverr

**WIRELESS COMMUNICATIONS**
• 1xRTT (CDMA version)
• EDGE/GPRS/GSM (EDGE version)
• HSPA/EDGE/GPRS/GSM (HSPA version)

**PERIPHERAL & I/O OPTIONS**
Serial Interface ................................................. One RS-232 serial port
Digital Input ...................................................... Two digital inputs

**VEHICLE DIAGNOSTICS**
J1850 PWM/VPW ....................................................... ISO 9141-2
J1708 ................................................................. J1708

**COMPLIANCE/CERTIFICATIONS**
• FCC
• PTCRB
• IC
• CE
• eMark

**NETWORK OPERABILITY**
• Sprint (CDMA)
• Verizon (CDMA)
• Kore (CDMA)
• Vodafone (EDGE 2G)
• AT&T (HSPA 3G)
• Telstra (HSPA 3G)

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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 cloud-based portfolio allows Trimble to offer customers industry-specific, enterprise-level solutions for exceptional performance and ease of use.

For more information on improving field and fleet productivity, visit: www.trimble.com/fsm

Specifications subject to change without notice.