



# TM3000N Asset Tracking Device

## KEY FEATURES

- The TM3000N is a **DIRECT REPLACEMENT** for the Trimble Placer Gold
- Robust architecture with TAIP integrated protocol
- Dual serial port functionality
- The TM3000N saves the last position for optimizing CAD interfaces
- Over-the-air programmable for future service enhancements and lower maintenance costs

### A reliable & inexpensive solution

The Trimble TM3000N GPS unit is installed in first-responder and commercial fleets worldwide. With a proven track record of exceptional performance and reliability, you can count on the TM3000N to operate reliably through multiple replacements of accessory equipment, such as laptops and data modems.

The Trimble TM3000N's reliability and minimal maintenance result in a significantly lower cost of ownership compared to low-end consumer grade models that need to be replaced frequently.

### Computer aided dispatch

The in-vehicle TM3000N product is the direct replacement for all previous Trimble GPS models. It is the preferred GPS receiver of many computer aided dispatch (CAD) system providers because the TM3000N works with the automatic vehicle location software you already have, such as most CAD systems, in-vehicle mapping and workforce management systems.

By using an in-vehicle laptop or workstation with wireless connectivity or specific RF data radio models, the Trimble TM3000N is able to send data directly to your back-office applications.

### The Trimble TM3000N GPS receiver is designed for public safety and commercial fleet automatic vehicle location applications

The Trimble TM3000N GPS receiver has a proven track record of exceptional reliability and longevity. Continuing our tradition of high performance and robust GPS receivers for mission-critical applications the Trimble TM3000N is a direct replacement for the Trimble Placer family of products.

The TM3000N has two independent, configurable RS232 serial ports (both of which may be used with an RS232 to USB 2.0 adapter), as well as user selectable interface protocols and port speeds (bps). Each port delivers location information to any in-vehicle device that accepts a GPS data input in a TAIP, NMEA interface format. This data allows dispatchers or managers to schedule Automatic Vehicle Location (AVL) reports based on time and/or distance traveled.



Exclusively distributed by:



# TM3000N ASSET TRACKING DEVICE



## GPS RECEIVER

An internal GPS receiver transmits position, velocity and time information at a 1 Hz rate to the application processor. The TM3000N asset tracking device supports an external GPS antenna. Typical, autonomous GPS performance characteristics under clear view, static conditions include:

- Position accuracy. . . . . <2.5 m CEP
- Acquisition time. . . . . <2 s Hot
- Tracking sensitivity. . . . . -159 dBm to -160 dBm

## INTERFACE SECTION

The 24-pin connector on the TM3000 asset tracking device supports a broad array of external interfaces. All external interface pins are protected against shorts to both ground and main power and ESD.

- Digital inputs . . . . . 2
- Analog inputs. . . . . 2
- Digital outputs. . . . . 2
- RS-232 serial ports. . . . . 2

## POWER SUPPLY

The TM3000N GPS receiver supports connection to (1) main battery power, (2) ignition/switched power and (3) ground.

- Voltage (main and switched) . . . . .9 V DC to 30 V DC
- Power Consumption (@ 12 V DC):
- Standby . . . . . 5 mA
- Idle. . . . . 15 mA
- Peak. . . . . <400 mA

## ACCESSORIES

- IP67 enclosure
- GPS antenna
- Interface cable

## ENCLOSURE

Molded from high-temperature, automotive-grade plastic with integral mounting tabs, the TM3000 system is designed for permanent installation in vehicles.

- Protection. . . . . IP65
- Dimensions. . . . . 115 mm x 78 mm x 26 mm
- Connectors:
- Power and interface. . . . . 24-pin
- GPS antenna. . . . . SMA

## ENVIRONMENT

- Operating temperature. . . . . -40 °C to +85 °C1
- Storage temperature. . . . . -40 °C to +85 °C
- Operating humidity . . . . . 5% to 95% non-condensing @ +40 °C
- Operating vibration. . . . . 50g rms

## REGULATORY APPROVALS & CERTIFICATIONS

- PTCRB
- FCC Parts 15, 22, and 24
- Industry Canada
- CE Mark
- ECR & TTE Directive



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