



Features and Specifications

Features

- **Count 1-16 Lanes**
Count methods include by Thru, Right, Left and Right On Red by each direction.
- **Classify 1-16 lanes**
Class methods include by Thru, Right, Left and Right On Red by each direction.
- **Temperature and Battery Data Storage**
When in collection mode the Titan can be set to store temperature data and battery voltage data changes, along with the sensor timestamp data in the counter files for later processing.
- **LCD Graphic Display**
The 128x64 pixel LCD display allows real time vehicle data monitoring, programming, diagnostics and status of the unit via picture menus and simple graphical user interface.
- **Optional Bluetooth® Wireless communications**
An onboard Bluetooth® wireless allows complete communication and control with no cables over short distances (up to 100ft). With Bluetooth®, users can monitor and download units without cables in the field and the office.
- **USB OTG (On-The-Go)**
The new USB OTG specification designates devices to act as a host and peripheral to alleviate the confusion of USB compatibility between other USB devices. It also allows smaller connectors to be utilized, keeping the size compact.
- **Ultra Low power consumption with Smart Power Management**
The Titan is designed to last for prolonged operating periods in the field on each charge of the lithium ion battery. It has been equipped with smart power management to eliminate extra battery drain when Bluetooth® or USB is not needed.
- **Real Time Classification Monitoring**
Unlike other timestamp units, the Titan has an on board classification and vehicle processor that allows real time feedback. This is accomplished via the display of the units operation and keypad activations for easy User feedback of proper operation.
- **End Of Study Summaries**
A highly useful and reassuring feature to users is this new ability to view immediate summary data such as ADT, average speed, peak times and data quality percentage when closing the study. The display gives the user immediate feedback of the data accuracy and allows the user to know if the data collected is useable before leaving the site.
- **Large Memory Capacity**
The Titan has a 16MB on board non-volatile flash memory capacity to store up to 4 million timestamp records and up to 65,000 separate studies.
- **Compact Size and Lightweight**
Weighing in at just over 2 pounds and small enough to fit in your palms, the Titan II is ultra portable and lightweight. Using a solid aluminum case, the unit is well protected and provides robust operation.



Specifications

- **Sensor Inputs:**
 - 64 Key Keypad
- **Output:**
 - RS232 Serial Port
 - USB 2.0 Female Port A (shared)
 - USB 2.0 OTG (On-The-Go) Micro AB port
 - Bluetooth® Wireless 1.1 Class 2
- **Firmware:**
 - Flash upgradable firmware via USB or Bluetooth®.
- **Memory:**
 - 16MB non-volatile flash (up to 4 million timestamp records)
- **Files:**

Unit stores up to 65,000 files in NV flash memory
- **Communications:**

Serial:
Direct serial connect at 19200, 115k baud rates

USB:
○ Direct PC connect at maximum of 12 Mbit/sec
○ Direct Flash Drive connect at 1.5 Mbit/sec
○ GPS Connect at default 4800 Baud

Bluetooth® Wireless:
○ Class 2 – 2.5mW Approx range = 10M
○ 921K baud Connection
○ GPS connect at default 4800 Baud
- **Timestamp Record Resolution**

Sensor resolution is performed and stored at 1000th of a second (0.001 sec) 1 Millisecond
- **Testing and Monitoring:**

Features real time sensor monitoring and per vehicle records via on board display.
- **Display:**

128 x 64 pixel backlit LCD graphic display
- **Power:**

Input:
○ USB 5volt charging at 100-500mA

Unit Operation:
○ 3.3V operation with typical power draw
 - Display on = 12mA
 - Display off = 38µA

Battery Life
 - Bluetooth® On = 90 days
 - Bluetooth® Off = 270 days

Internal Battery:
○ Lithium-Ion rechargeable 4.2Ahr Dual Cell
- **Physical:**

Size – 1 1/2"H x 7"W x 10 1/2"L
Weight – 2.2lbs
- **Environmental:**

IP45
Operating Range:
 - -40°F (-40°C) to 165°F (72°C)



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