



NW-TCM-3300 TELEMATICS CONTROL MODULE

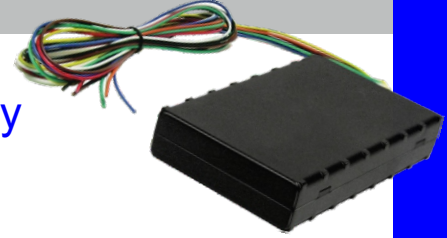
NW-TCM-3300

#	Date	Time	Status	Lat	Lon	Speed mph	Altitude feet	Odometer Miles	
1	2007/03/13	11:05:37	Start	38.6457	-121.9808	13.7 W	23		I-80, NC
2	2007/03/13	11:10:44	InMotion	38.6384	-121.4916	64.6 SW	16		I-80, So
3	2007/03/13	11:15:50	InMotion	38.5755	-121.5702	63.4 W	16		I-80, W
4	2007/03/13	11:20:58	InMotion	38.5568	-121.6781	64.6 W	16		45217 E
5	2007/03/13	11:26:05	InMotion	38.5152	-121.7753	65.2 SW	33		Dixon, C
6	2007/03/13	11:31:15	InMotion	38.4465	-121.8590	65.9 SW	62		Dixon, C
7	2007/03/13	11:36:26	InMotion	38.3820	-121.9425	64.0 SW	82		I-80, Va
8	2007/03/13	11:41:34	InMotion	38.3225	-122.0259	65.2 SW	266		Vacaville
9	2007/03/13	11:46:43	InMotion	38.2446	-122.0820	65.9 SW	26		Mageofo
10	2007/03/13	11:51:44	InMotion	38.1904	-122.1696	65.9 SW	312		I-80, Fa
11	2007/03/13	11:56:52	InMotion	38.1189	-122.2303	64.6 S	112		I-80, Va
12	2007/03/13	12:01:59	InMotion	38.0387	-122.2473	65.2 SW	194		Eastshc
13	2007/03/13	12:07:09	InMotion	37.9756	-122.3187	65.9 S	233		Richmo
14	2007/03/13	12:12:14	InMotion	37.8973	-122.3691				431 P
15	2007/03/13	12:17:20	InMotion	37.8263	-122.4195				
16	2007/03/13	12:22:24	InMotion	37.8225	-122.4700				
17	2007/03/13	12:27:32	InMotion	37.8077	-122.5205				
18	2007/03/13	12:32:32	InMotion	37.7889	-122.5710				
19	2007/03/13	12:37:34	InMotion	37.7701	-122.6215				
20	2007/03/13	12:42:40	InMotion	37.7855	-122.6720				
21	2007/03/13	12:47:41	InMotion	37.7834	-122.7225				
22	2007/03/13	12:52:46	Stop	37.7841	-122.7730				

Qualifies For
**Fireman's Relief
Funding**

- Advanced Fleet Tracking and Monitoring Solution
- Flexible Reporting By Vehicle, Group, Distance and Maintenance
- Superior GPS & Cellular Quality
- Save Fuel, Save Time, Improve Profits
- Proactive Alerting for Any Event
- Create Geo-Zones, Geo-Fences, Geo-Corridors
- Customizable Mobile Resource Management Solution
- Easy to Install, Easy to Use
- Includes Voyager Management Portal Access
- Customized Reporting; Performance, Speed, I.F.T.A
- Economical, Winning Combination Provides Positive ROI

Fleet Management with Superior GPS/GPRS Technology Voyager Mobile Management Solution



Telematics Control Module 3300 (TCM-3300) is part of the Voyager family of advanced communications modules. Designed for easy installation with automatic Over-The-Air configuration and seamless integration with our Voyager Management Portal (VMP) software.

The Voyager family of TCMs are advanced communications modules that when installed in any type of vehicle provide intelligent tracking, monitoring, alerting, and event reporting. The combined advanced features of the Voyager TCMs with the robust and highly configurable Voyager Management Software create a powerful Mobile Resource Management solution. This combination provides extreme flexibility and power, yet is very easy to use and configure.

TCM-3300 Advantage

The TCM-3300 provides a complete vehicle tracking and communications solution that features a compact size, superior GPS performance, and advanced power management at an economical price. The TCM-3300 was designed to dramatically reduce cost, power and footprint while maintaining excellent field reliability. If more advanced features or different networks are required, the TCM-5300 or TCM-8500 models can be selected with no further integration or support required.

Easy Installation

Internal antennas for both cellular and GPS eliminate the need for wired antennas and make the TCM-3300 mountable virtually anywhere in the vehicle for quick and easy installations. The TCM-3300's integrated wiring harness with its 3 inputs and 3 outputs provides you the flexibility to connect and monitor vehicle performance data that is important to you.

Flexibility with Voyager Management Portal

The TCM-3300 includes the industry leading Voyager Management Portal (VMP) software for logistical asset tracking, routing, vehicle telematics and advanced reporting. The Voyager Management Portal provides you with a flexible and customizable Mobile Resource Management solution that when implemented across your fleet will empower you with data necessary for intelligent Mobile Resource Management and decision making.

The Voyager Advantage

The Voyager Mobile Management Solution is a comprehensive end-to-end solution with the TCM-3300 hardware and VMP software designed to work seamlessly together. This integration provides you with a total solution that is easy to use, easy to deploy, cost effective and scalable for the future.

Telematics Control Module

Key Benefits

- Economically Priced
- Compact Design for Easy Installation
- Superior GPS Quality (-160 dBm tracking)
- Highly Configurable for Advanced Requirements
- Internal GPRS and GPS Antennas
- Built-in Wire Harness
- Tamper-resistant / Tamper-evident housing
- Automatic, Over-The-Air (OTA) configuration on power-up
- Automatic, Over-The-Air (OTA) firmware upgrades
- Simple, Easy to Install, Easy to Use
- 3 Inputs / 3 Outputs
- Voltage Monitoring and Low Battery Notification
- 2,000 Buffered Messages
- 4 Built in Geofences

Specifications

General Specifications

Communication Modes	GPRS packet data and SMS
Location Technology	50 Channel GPS
Operating Voltage	6-32 VDC

GPS Location Specifications

Location Technology	50 Channel GPS (with SBAS, DGPS)
Location Accuracy	2 meter CEP (with SBAS)
Tracking Sensitivity	-160 dBm (tracking)
AGPS Capable	

GSM/GPRS Specifications

Data Support	SMS, GPRS (UDP)
Cellular/PCS:	FCC- Parts 22, 24; PTCRB
GPRS	Up to class 12
Quad Band	850/900/1800/1900 MHz
Output Power	850 (Class 4) 2W 900 (Class 4) 2W 1800 (Class 1) 1W 1900 (Class 1) 1W

Comprehensive I/O

Inputs	3
Relay Driver	
Outputs (150 mA)	3
Status LED's	GPS and Cellular

Electrical Specifications

Operating Voltage	6-32 VDC
Power Consumption	
Deep Sleep	<1mA @12V
Sleep on Network	<10 mA @ 12V
Active Standby	<70 mA @12V

Specifications subject to change without notice.

Physical Specifications

Dimensions	54 x 89 x 16 mm 2.125 x 3.5 x .0625 inches
Weight	82g
Status LEDs	GPS and Cellular

Environmental Specifications

Operating Temperature	-30° to +75° C
Storage Temperature	-40° to +85° C
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI:	SAE J1113; FCC-Part 15B; Industry Canada

ROHS Compliant

Mounting

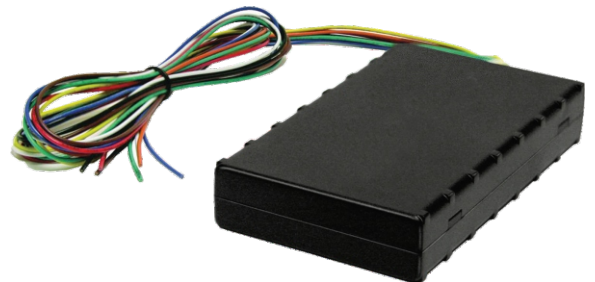
Standard	Tie-wrap, Velcro or Double-sided adhesive
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Optional Features/Functions

Starter Interrupt Relay with Harness
External Backup Battery

Development Support Options

- Customized Software Features Available on Request
- Custom Development Available on Request



Contact Info

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