TW400



The **connection** of things.

Sprite[™] TW400, Fleet Tracker LTE Cat M1

Overview

The Sprite TW400 is a robust telematic development platform, that incorporates a LTE CAT M1 modem, multi-constellation GNSS/GPS receiver, powerful processing engine, and a triple-axis accelerometer for monitoring operator driving behaviour.

Competitive Edge

The TW400 is designed for fleet tracking applications. The TW400 puts you in the passenger seat of every vehicle. The cellular tracking device provides configurable event reporting of location, I/O, Odometer, Engine Idle times and driving behaviour.

The TW400 fleet tracking application offers our proprietary Contrails data compression algorithm which provides a superior location reporting resolution while minimizing network data usage offering you operational savings.

Accelerate your development cycle

Our telematics devices and fleet-tracking solutions make connecting to cellular networks easy, eliminating the complexities associated with cellular design and certification. The TW400 fleet tracker provides developers accelerated timeto-market which significantly reduces development costs. The TW400 embedded asset management application is available with either the Tallymatics proprietary messaging or the ISO standard MQTT Message Queuing Telemetry Transport protocol enabling easy integration with either Amazon Web Services or Microsoft Azure IoT.



Tallymanager Portal

Easily manage the configuration and firmware updates of all your devices with the Tallymanager Device Management Portal. The web application provides an intuitive interface for easy of configuration and management of your devices. Updates are automatically pushed to devices over the air.

Status and diagnostic information for the TW400 devices are updated periodically in the portal so you can confirm operation. A map display provides feedback on the location of your devices.

Features

- Multi-regional LTE Cat M1
- High sensitivity GNSS (GPS/Glonass/Galileo) receiver
- 20 Pin Molex locking connector, pin for pin compatible with CapAmp devices
- Internal/External antenna options
- Out of the box support for AWS & Azure with MQTT
- Integrated RS232 for direct Peripheral connectivity
- Store and forward data integrity
- Available CANbus for OBDII direct connect
- Excellent multi-path signal rejection
- Industrial grade IP67 enclosure
- RoHS, REACH, RED compliant. CE marking

Benefits

- Easy to install and provision
- High resolution fleet tracking to the block level
- Motion sensing, hard braking, impact detection
- Automatic over-the-air configuration and firmware downloads
- Comprehensive Management Reports
- Access to Tallymanager Device Management Portal
- Assured message delivery with up to 20K persisted messages
- Global acesss with carrier agnostic global SIM cards
- Proprietary lossless data compression lowers operating cost

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Specifications

Cellular Network	Connectors
LTE module for multi-regional Cat M1/NB1 North America LTE Cat M1, (Bands: 2,4,5,12 and 13) Micro Sim Acess Ordered separatley (3FF) Contact for Global regional network compatability.	20 Pin Molex Locking Compatible with CalAmp devices Optional external antennas SMA for GPS & SMC for Cellular
	Signal I/O
GNSS Satellites	Ignition Input Active high (8V to 32V) 4x Digital Input Active High (0.7V minimum Active
GNSS (3-concurrent)	3x Digital Output Open collector (200mA sink) 1x Analog Input (0V to 32V) 2x Serial Ports 2 wire RS-232 (option: 1xCAN / 1xSer) 1-Wire (Dallas) (ie: Driver ID or Temperature Sensor) 3V3 DC Output Switched (50 mA)
Antennas	Electrical
Integrated GNSS antenna Dual feed w/ excellant mutipatch rejection Integrated Cellular Multi-band w/ 100mm ground plane for Superior performance External Antennas Optional	Operating voltage
System Features	Enviromental
3-axis Accelerometer Event monitor, crash detection, behaviour insurance Status LED's GPS and Cellular status	Temperature
Certifications	Mechanical

..... PTCRB-CTIA, FCC, AT&T, CE, RoHS

Ordering Information

TW400 (Internal Antennas)	33-0400-000
TW400 (External antenna)	33-0400-010
TW400 (Internal w/CAN)	33-0400-100
TW400 (External w/CAN)	33-0400-110



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Tallymatics manufactures high performance, telematics products and solutions for a wide range of applications. With support for both RF wireless and data networks, Tallymatics enables high-resolution location awareness of mobile field assets across any type of wireless network. Tallymatics is a division of Tallysman.

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