



**PUI**  
Positioning Universal

# FT7000

## ADVANCED VEHICLE MANAGEMENT GATEWAY

Built for both light and heavy-duty vehicles, the **FT7000** is a feature-rich tracking solution, with a robust device management system that is easily scalable to millions of devices.

The **FT7000**'s advanced driver-behavior analysis maximizes safety on the road, while enterprise-grade security keeps your sensitive data safe.

### KEY FEATURES

- Dual CAN interface supports light and heavy-duty vehicles
- Powerful, scalable, cloud-based device management with Open API
- Advanced virtual ignition detection system
- Accurate odometer based on GPS, wheel speed and ECU
- Integrated LTE Cat M1 cellular with 2G fallback
- Wi-Fi client & v5.2 Bluetooth Low Energy
- Backup battery

### MARKET APPLICATIONS

- **Light and Heavy-Duty Vehicle Management**
- **Business Fleet Management**
- **Insurance Management**
- **Service Vans and Trucks**
- **Heavy-Duty Equipment**



## SPECIFICATIONS

### GLOBAL CELLULAR CONNECTIVITY

CATM1 FDD	B1/B2/B3/B4/B5/B8/B12/B18/B19/B20/B26/B28
CATM1 TDD	B39
NB1 FDD	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28
2G	GSM 850/900/1800/1900

### CASE

DIMENSIONS	7.3" x 3.23" x 1.22" (184mm x 82mm x 31mm)
WEIGHT HOUSING	0.63lb (280g) Industrial-Grade Polycarbonate (PC) Ingress Protection (IP): 4X

### ENVIRONMENT

OPERATING TEMP	Powered: -40°C to 70°C Battery: -20°C to 60°C Charging: 0°C to 45°C
	RoHS, Reach, SAEJ1455 [Thermal Shock(1*), Humidity(2*), Mechanical Vibration, Mechanical Shock, Electrostatic Discharge]
	(1*)(2*) Inside Operating Temperature Range

### BACKUP POWER

BATTERY	1.3Ah
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### LOCAL AREA CONNECTIVITY

WiFi	802.11 b/g/n(2.4GHz) Station & softAP(3*)
BLE	5.0(Master, Slave, LE Data Packet Length)
USB	Mass Storage(host), ACCM(client)
	(3*) For telemetry & ELD applications only; not intended for generic hotspot capability; throughput limited to ~20KBps(TBC)

### CERTIFICATIONS

FCC, IC, CE, PTCRB, RCM

### LOCATION

GPS (multi-constellation)  
Assisted Acquisition: 2s (via cloud)  
Acquisition Sensitivity: -160dBm(4\*)  
Tracking Sensitivity: -167dBm(5\*)

(4\*)(5\*) Based on GPS Chipset Specification

### INTERNAL SENSORS

9-Axis IMU, System Temperature, Battery Level

### INTERNAL ANTENNAS

Cellular Primary and Secondary, GPS, Bluetooth, WiFi

### USER INTERFACE

Power Button, 5 LEDs, Buzzer

### EXTERNAL CONNECTORS

Cellular Primary  
GPS  
USB  
Power In(6-48VDC)  
Power Out(2.5W)  
1-Wire Technology(6\*)  
ADC(48V) X 2  
Digital Input X 5  
Digital Output X 3  
Ignition Detection  
CAN 2.0B X 1(ISO-15765 or J1939)  
CAN 2.0B or FD X 1(ISO-15765 or J1939)  
RS-232 X 2  
ISO-9141(K line for Tachometer)  
J1708(Firmware Support TBC)

(6\*) 1-Wire is a registered trademark of  
Maxim Integrated Products, Inc.

### SECURITY

Secure Boot, TLS/SSL, FIPS 140-2(Optional; TBC)

Specifications are subject to change. Please see your Positioning Universal contact for more details.