Anytime, anywhere sense your vehicle.

InVehicle T200 Series Vehicle Telematics



Vehicle Telematics 200 is capable of reliable operation in harsh environments even when the vehicle is powered off. Integrating LTE, GNSS, gyroscope and inertia sensor, equipped with powerful computing capabilities and a multitask system, the VT200 precisely locates vehicle positions in real time, records mileage, monitors hard braking, acceleration, collision and other accidents, maintains transport safety, records and analyzes driving behavior. Multiple I/O interfaces remotely monitor various vehicle peripherals such as alarms, sensors, switches, ignition status, controllers, etc. With standard vehicle protocols such as OBD-II, J1939 supported, the VT200 tracks vehicle operation starts and delivers preventive maintenance. Major fleet managers can rely on the VT200 to track and manage fleet vehicles and drivers with accuracy and efficiency.

Market Applications

Light Vehicles

Fleet Management

Trailer Tracking

Car Sharing

International Logistics

Refrigerated Transpor

Heavy Duty Transport





Features and Advantages

+ High Performance Asset Tracking Gateway

Available with LTE CAT M1, CAT 1, the VT200 continuously delivers reliable connectivity while being power-saving.Built-in GNSS module and inertial navigation for high-precision real-time location tracking; with the gyroscope, the VT200 enables continuous driving behavior monitoring and keeps you safe on the road.

+ Extensive Interfaces, Better Integration with Vehicles

Built with CAN bus, the VT200 is perfect for vehicles like heavy equipment. It supports common vehicle diagnostic protocols such as OBD-II, J1939.

Extensive interfaces, including serial ports, I/O, 1-Wire.

+ Multiple IoT Cloud Services Supported

AWS 、Azure、Wialon 、ThingsBoard、MQTT Cloud、Customer Private Cloud、Other.

+ Continuous and Reliable Operation

Cache which over 3K location records, freeing you from concerns about data loss when Internet connection is unavailable.

+ Purpose Designed for Vehicles

Wide voltage range of 9 \sim 36VDC covers all types of vehicle power supplies. Powered by 1000mAh battery, the VT200 is able to continue working when the machine is turned off. Operating temperature range is $-20 \sim 60$ °C.

+ Easy for Installation

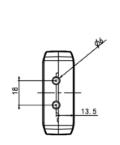
With built-in cellular and GPS antennas, the VT200 is easy for installation and deployment on the road.

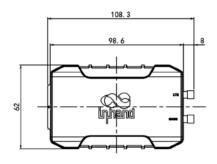
Connector Pin Assignment

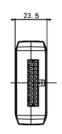
IO 20PIN Definition

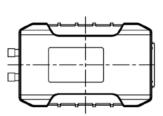
PIN	1	2	3	4	5	6	7	8	9	10
Def.	CAN0_H	RS485_A	GND	RS232_TX	DO1	GND	Al1/Dl1	AI3/DI3	IGT	VIN-
PIN	11	12	13	14	15	16	17	18	19	20
Def.	CAN0_L	RS485_B	1Wire	RS232_RX	DO2	GND	Al2/Dl2	Al4/Dl4	GND	VIN+

Dimensions









Product Specifications

InVehicle T200					
Network Type		LTE CAT1 / CAT M1			
LTE Antenna		Built-in ceramic antenna or External SMA			
GNSS Antenna		Ceramic built-in antenna or External SMA			
	Satellite Support	GPS Galileo Beidou GLONASS			
	Channel	72 channels			
GNSS (Global	Sensitivity	−164 dBm, initial positioning time 26s			
Navigation Satellite System)	Tracking Sensitivity	−156 dBm (Hot start); −147 dBm (Cold start)			
	Location Accuracy	2.5m (CEP50)			
	Update Frequency	10 MHz			
l4'l O	Acceleration	Measurement range: ±2/±4/±8/±16g			
Inertial Sensor	Angular Velocity	Measurement range: ±125 / ±250 / ±500 / ±1000 / ±2000dps			
Electrical Features	Working Voltage	9~36VDC			
	Operating Temperature:	- 20°C ~ 60°C			
	Storage Temperature	-40℃ ~ 85℃			
Environment	Humidity	95% RH @ 50 ℃ non-condensing			
	ESD	IEC 61000-4-2 (4KV test)			
	Protection Rating	IP40			
	Capacity	1000mAh			
D	Battery Material	Lithium-lon			
Battery parameter	Working Temperature	Charging: 0 ℃ ~ 45 ℃; Discharging: −20 ℃ ~ 60 ℃			
	Storage Temperature	-20°C ~ 35°C			
	Shell Material	ABS+PC			
Mechanical Features	Disconsisses (L., D., II)	98.6 x 62 x 23.5 mm Built-in antenna version			
	Dimensions (L x D x H)	108.3 x 62 x 23.5 mm External Antenna Version			
Vehicle Features	e Features CAN bus 1 channels				
	Ignition Signal	1 channel			
	Digital Input / Analog Input	4 DI/AI			
I/O	Digital Output	2-channels (Max. 300 mA)			
	1-Wire	1 channel			
	Serial Port	RS232 and RS485			
	Cloud platform	AWS IoT、Azure IoT、Aliyun IoT and 、Wialon、Traccar、GPSWox、WhiteLable Tracking、Thingsboard、Customer patform			
	Transport protocol	TCP, UDP, HTTP, MQTT, JT808			
	Encrypts communications	SSL/TLS			
Software Serivice	CAN bus	OBD-II、J1939、CAN bus and ELD data transparent transmission			
	RS232/RS485	Transparent、Modbus RTU			
	Event Alarm	Collision detection、Motion detection、Overspeed、IO change、ignition signal detection etc.			
	Event Alami	Report support SMS or FlexAPI over TCP/UDP/MQTT			
Configuration	USB 2.0	Type-C			
External	SIM Card Slot	Nono-SIM 4FF (Single SIM card)			
Interfaces	LED Indicator	2 LED cellular status, GNSS status			
Certification*		CE、FCC、IC、PTCRB、E-Mark			



Ordering Guide

Model	Cellular Type	Antenna/Battery	Region
VT200-FQ33	LTE Cat1 LTE-FDDB2/B4/B5/B12/B13 WCDMA B2/B4/B5	Built-in / None	North America
LTE Cat1 VT200-FQ33-BAT		Built-in / 1000 mA	North America
VT200-FQ33-ANT	LTE Cat1 LTE-FDDB2/B4/B5/B12/B13 WCDMA B2/B4/B5	External / None	North America
VT200-FQ33-ANT-BAT	LTE Cat1 LTE-FDDB2/B4/B5/B12/B13 WCDMA B2/B4/B5	External / 1000 mA	North America
VT200-FQ02	LTE Cat M1 LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/ B25/B26/B27/ B28/B66/B85	Built-in / None	Global
VT200-FQ02-BAT	LTE Cat M1 LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/ B25/B26/B27/ B28/B66/B85	Built-in / 1000 mA	Global
VT200-FQ02-ANT	LTE Cat M1 LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/ B25/B26/B27/ B28/B66/B85	External / None	Global
VT200-FQ02-ANT-BAT	LTE Cat M1 LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/ B25/B26/B27/ B28/B66/B85	External / 1000 mA	Global

Cable Accessories

Cable	Order Code	Diagram	Specifications
20 PIN Cable	SCAB000381		The cable has P1 and P2 ends: P1 is 20PIN female, connected to VT200; P2 is open end, AWG24 for other signals, and the connector HX30002-20.
OBD 16PIN Test Cable	SCAB000399		OBD 16PIN interface test line,Cable standard UL2464,wire length 1500mm
J1939 6PIN Test Cable	SCAB000409		J1939 6PIN interface test line,Cable standard UL2464, wire length 1500mm

About Us

InHand Networks is a global leader of Industrial IoT, with a record of tremendous success following groundbreaking innovation since our inception in 2001.

InHand serves world-class partners and customers with industrial M2M routers, gateways, industrial Ethernet switches, rugged computers and IoT management platforms. We provide IoT solutions for various vertical markets including Smart Grid, Industrial Automation, Remote Machine Monitoring, Smart Vending, Smart City, Retail and more.

Proudly bearing the marks of both Rockwell Automation Encompass Product Partner in Asia-Pacific and Schneider Electric CAPP Technology Partner, InHand Networks defines industrial innovation and reliability.



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