GPI TACHO

LEADING GNSS/GSM TERMINAL FOR PROFESSIONAL APPLICATIONS

GPI Tacho is GNSS, GSM terminal for PROFESSIONAL applications. GPI Tacho is designed for complex solutions, where one device can do multiple tasks. FMB640 features like FMS CAN data (J1939), fuel CAN data (J1708), tachograph live data (K-Line), remote tachograph file download, various third party RS232 or RS485 devices support and Dual-SIM will maximize your fleet efficiency. Terminal is suitable for applications like international logistics, refrigerated transport, agriculture, construction & mining, security & emergency services and even more.



USE CASES





TRANSPORT



PUBLIC SAFETY SERVICES



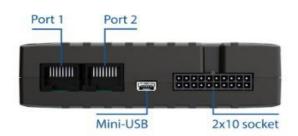
REFRIGERATED TRANSPORT

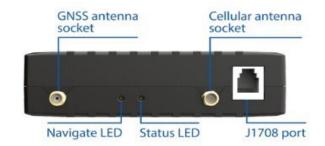


INTERNATIONAL LOGISTICS



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Module

GSM/GPRS/GNSS	
GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS	
33/99 acquisition channels	
-165 dBM	
< 2.5 CEP	
<0.1m/s (within +/- 15% error)	
<1s	
< 25 s	
< 35 s	
	33/99 acquisition channels -165 dBM < 2.5 CEP <0.1m/s (within +/- 15% error) < 1 s < 25 s

Cellular

Technology	GSM/GPRS	
2G	Quad-band 850 / 900 / 1800 / 1900 MHz	
GPRS	GPRS Mobile Station Class B	
Data transfer	GPRS Multi-Slot Class 12(up to 240 kbps)	
Data support	SMS (text/data)	

Power

Input voltage range	10 - 30 V DC with overvoltage and reverse polarity protection	
Internal Back-up battery	550 mAh Ni-Mh. 8.4 V battery	

Power Consumption

At 12V < 7 mA	Deep Sleep	
At 12V < 12 mA	Online Deep Sleep	
At 12V < 28 mA	GPS Sleep	
At 12V < 65mA	Nominal with no load	
At 12V < 120 mA	GPRS	

Physical specification

Dimensions	104.1 x 76.8 x 31.5 mm (L x W x H)	
Weight	197 g	

Operating environment

Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +85 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
Battery storage temperature	-20 °C to +45°C
Interface	
Digital Inputs	4
Digital Outputs	4
Analog Inputs	4
1-Wire	1
RS232	2
RS485	1
CAN J1939	2
J1708	1
K-line	1
GNSS antenna	External High Gain
GSM antenna	External High Gain
USB	2.0 Mini-USB
LED indication	2 status LED lights
SIM	2x SIM Card (Dual-SIM)
Memory	2 MB internal flash memory and external Micro SD card up to 32GB
Features	
Sensors	Accelerometer
Scenarios	Green/Eco Driving, Over Speeding detection, Jamming detection, Excessive Idling detection, Towing detection, Crash detection, Immobilizer, iButton Read Notification, Auto Geofencing, Manual Geofencing, Trip detection, Odometer, Fuel counter, GNSS Unplug Detection, DDD download and Tacho online data, Offline tracking, Voice call
Supported peripherals	RFID RS232, RFID 1-Wire, iButton 1-Wire, Temperature 1-Wire, Continental tire pressure measurement sensor
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep
Configuration and firmware update	Web, FOTA,
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	LLS (Analog), Digital LLS (RS232, RS485), LV-CAN200, ALL-CAN300, CAN-CONTROL, CAN FMS (J1939, J1708), Ultrasonic level sensor
Ignition detection	Digital Input, Accelerometer, External Power Voltage
RS232 Modes	Log Mode, NMEA, LLS, LCD, RFID HID/MF7, Garmin FMI, TCP ASCII/Binary, TCP ASCII/Binary (Buffered), Rec to LCD, Atol Tachograph, UL202-2 Fuel Sensor, TSM232 Sattelite backup, Carrier Freezer
RS485 Modes	Silent, Log Mode, NMEA, LLS, TCP ASCII/Binary, TCP ASCII/Binary (Buffered)
Certification & Approvals	
Regulatory	CE/RED, E-Mark, EAC, RoHS, REACH, Anatel