

FMC640

PROFESSIONAL LTE/GNSS TERMINAL

Teltonika FMC640 is a PROFESSIONAL series device with 4G (LTE Cat 1) network coverage including 3G (UMTS), 2G (GSM) fallback compatibility. Device equipped with GNSS and LTE modules, external GNSS and LTE antennas. FMC640 will maximize your fleet efficiency with 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. Terminal is suitable for applications like international logistics, refrigerated transport, agriculture, construction & mining, security & emergency services and even more.



USE CASES





HEAVY DUTY TRANSPORT



PUBLIC SAFETY SERVICES



REFRIGERATED TRANSPORT

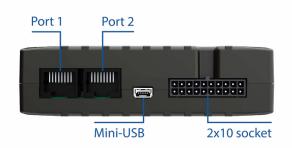


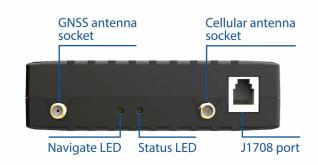
INTERNATIONAL LOGISTICS



AGRICULTURE TRANSPORT







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Weight

197 g

Name	Quectel EG91-EX	
Technology	LTE(CaT1)/3G(UMTS/HSPA)/2G(GSM/GPRS)/GNSS	
GNSS		
GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS	
Protocol compatible	NMEA, GGA, GGL, GSA, GSV, RMC, VTG	
Receiver	Tracking: 33/99 acquisition channels	
Tracking sensitivity	-165 dBM	
Position accuracy	< 2.5 CEP	
Velocity accuracy	< 0.1M/S (WITHIN +/- 15% ERROR)	
Hot start	<1 s	
Warm start	< 25 s	
Cold start	< 35 s	
Cellular		
Technology	LTE Cat 1, UMTS, GSM	
2G bands	EG91-EX: GSM: B3/B8	
3G bands	EC91-EX: WCDMA: B1/B8	
4G bands dedicated for EMEA region	EC91-EX: LTE FDD: B1/B3/B7/B8/B20/B28	
Data transfer	LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL) GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)	
Data support	SMS (text/data)	
Power		
Input voltage range	10 - 30 V DC with overvoltage protection	
Internal Back-up battery	550 mAh Ni-Mh, 8,4 V battery	
Bluetooth		
Specification	5.0 + LE	
Supported peripherals	Temperature and Humidity sensor, Universal BLE sensors support	
Physical specification		
Dimension	104,1 x 76,8 x 31,5 mm (L x W x H)	



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	
Interface		
Digital Inputs	4	
Digital Outputs	4	
Analog Inputs	4	
1-Wire interface	1	
RS232	2	
RS485	1	
CAN J1939	2	
J1708	1	
K-line	1	
GNSS antenna	External High Gain	
Cellular antenna	External LTE CAT 1 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		
Movement detection	Accelerometer	
Scenarios	Green/Eco Driving, Over Speeding detection, Jamming detection, Excessive Idling detection, Towing detection, Crash detection, Immobilizer, iButton Read Notification	
Functionalities	Auto Geofencing, Manual Geofencing, Trip detection, Odometer, Fuel counter, GNSS Unplug Detection, DDD download and Tacho online data, Offline tracking	
Supported peripherals	Garmin, RFID RS232, RFID 1-Wire, iButton 1-Wire, Temperature 1-Wire, LV-CAN200, ALL-CAN300, CAN-CONTROL, CAN FMS (J1939, J1708), K-line data, Continental tire pressure measurement sensor, Iridium SBD (TSM232), Carrier freezer, Log Mode, NMEA, TCP ASCII/Binary, Temperature and humidity sensor, Universal BLE sensors support	
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep	
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator	
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, Ultrasonic lev sensor	
Ignition detection	Digital Input, Accelerometer, External Power Voltage	

