

FMC130

ADVANCED LTE TERMINAL WITH FLEXIBLE INPUTS CONFIGURATION

Product page



4G CAT 1 4.0



4G CAT 1

Reliable LTE CAT connectivity

BLUETOOTH CONNECTIVITY

For low energy sensors and beacons

CONFIGURABLE DIN/AIN

For flexible remote monitoring and control

3 AXIS ACCELEROMETER

For driver monitoring and crash detection



LIGHT VEHICLES



HEAVY DUTY TRANSPORT



TRAILER TRACKING



REFRIGERATED TRANSPORT



INTERNATIONAL LOGISTICS



CAR SHARING

FMC130-MCIB0 is small and professional real-time tracking terminal with GNSS and LTE/GSM connectivity and backup battery. Device equipped with GNSS/Bluetooth and LTE modules, internal GNSS, LTE antennas, configurable digital, analogue inputs and digital outputs, negative input, impulse inputs. It is perfectly suitable for applications where location acquirement of remote objects is needed: fleet management, car rental companies, taxi companies, public transport, logistics companies, personal cars and so on.



MODULE

Name	MeiG SLM320-E, MeiG SLM320-LA, Quectel EC21-EC, Quectel EC21-AU, Quectel EC21-J, Quectel EC21-KL, Teltonika TM2500
Technology	LTE(Cat1)/3G(UMTS/HSPA)/2G(GSM/GPRS)/GNSS/BLUETOOTH® LE
GNSS	3 A, 125 V
GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS
Receiver	Tracking: 33
Tracking sensitivity	-165 dBm
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

CELLULAR

Technology	LTE Cat 1, UMTS, GSM
2G bands (SLM320)	FMC130-ME1: GSM: B2/B3/B5/B8 FMC130-ME3: GSM: B2/B3/B5/B8 FMC130-MCIB0: GSM: B2/B3/B5/B8
2G bands (EC21)	EC21-EC: GSM: B3/B8 EC21-AU: GSM: B2/B3/B5/B8
3G bands (EC21)	EC21-EC: WCDMA: B1/B8 EC21-AU: WCDMA: B1/B2/B5/B8
4G bands (SLM320)	FMC130-ME1: LTE FDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B38/B40/B41 FMC130-ME3: LTE FDD: B1/B3/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 FMC130-MCIB0: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD: B40
4G bands (EC21)	EC21-EC: LTE FDD: B1/B3/B7/B8/B20/B28A EC21-AU: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28/ LTE TDD: B40 EC21-J: LTE FDD: B1/B3/B8/B18/B19/B26 EC21-KL: LTE FDD: B1/B3/B8/B18/B19/B26
Data transfer (SLM320)	LTE: LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8Mbps (DL)/Max 2Mbps (UL) GSM: GPRS: Max 85.6Kbps (DL)/Max 85.6Kbps (UL)
Data transfer (EC21)	LTE: LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8.96Mbps (DL)/Max 3.1Mbps (UL) UMTS: WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL) GSM: GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)

Transmit power	Class 4 for GSM850/900:	33±2dBm
	Class 1 for GSM1800/1900:	30±2dBm
	Class 3 for LTE-TDD:	23±2.7dBm
	Class 3 for LTE-FDD:	23±2.7dBm

Data support	SMS (text/data)
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POWER

Input voltage range	10-30 V DC with overvoltage protection
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Back-up battery	170 mAh Li-Ion battery 3.7 V (0.63 Wh)
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Internal fuse	3 A, 125 V
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Power consumption	At 12V < 3 mA (Ultra Deep Sleep)
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At 12V < 250 mA Max. (with full Load / Peak)	At 12V < 3 mA (Ultra Deep Sleep)
	At 12V < 5 mA (Deep Sleep)
	At 12V < 16 mA (Online Deep Sleep)
	At 12V < 18 mA (GPS Sleep)
	At 12V < 33 mA (nominal with no load)
	At 12V < 250 mA Max. (with full Load / Peak)

BLUETOOTH® TECHNOLOGY

Specification	4.0 + LE
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Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal Bluetooth® LE sensors support
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PHYSICAL SPECIFICATION

Dimensions	65 x 56 x 20,6 mm (L x W x H)
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Weight	55 g
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INTERFACE

Digital Inputs	3
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Negative Inputs	1 (Digital Input 2)
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Impulse Inputs	2 (Digital Input 1, Digital Input 2)
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Digital Outputs	3
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Analog Inputs	2
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CAN Adapter inputs	1
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1-Wire	1
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GNSS antenna	Internal High Gain
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Cellular antenna	Internal LTE High Gain
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USB	2.0 Micro-USB
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LED indication	2 status LED lights
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SIM	Micro-SIM + eSIM
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Memory	128MB internal flash memory
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OPERATING ENVIRONMENT

Operating temperature (without battery)	-20 °C to +85 °C
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Storage temperature (without battery)	-20 °C to +85 °C
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Operating temperature (with battery)	-20 °C to +40 °C
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Storage temperature (with battery)	-20 °C to +45 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months

FEATURES

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Immobilizer, iButton Read Notification, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip, Ground Sense
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth® wireless technology)
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GPS, NITZ, NTP
Fuel monitoring	LLS (Analog), LV-CAN200, ALL-CAN300, OBDII dongle, CAN-CONTROL, OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)

CERTIFICATION & APPROVALS

Regulatory	CE/RED, E-mark, RCM, TELEC, JATE, EAC, REACH, RoHS, CITC, IMDA, SIRIM QAS, ICASA, SDPPI (POSTEL), IP Rating, Anatel
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