

## MODULE

Name	MeiG SLM320-E, MeiG SLM320-LA, Quectel EC21-AU, Quectel EC21-EC, Quectel EC21-KL, Quectel EC21-J, Teltonika TM2500
Technology	LTE(Cat1)/3G(UMTS/HSPA)/2G(GSM/GPRS)/GNSS/BLUETOOTH

## GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS
Receiver	Tracking: 33
Tracking sensitivity	-165 dBm
Accuracy	< 2.5m CEP
Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Technology	LTE Cat 1, UMTS, GSM
2G bands (EC21)	EC21-AU:GSM: B2/B3/B5/B8 EC21-EC:GSM: B3/B8
2G bands (SLM320)	FMC130-ME1:GSM: B2/B3/B5/B8 FMC130-ME3:GSM: B2/B3/B5/B8 FMC130-ML1:GSM: B2/B3/B5/B8
3G bands (EC21)	EC21-AU:WCDMA: B1/B2/B5/B8 EC21-EC:WCDMA: B1/B8

4G bands (EC21)	EC21-AU: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 EC21-EC: LTE FDD: B1/B3/B7/B8/B20/B28A EC21-KL: LTE FDD: B1/B3/B5/B7/B8 EC21-J: LTE FDD: B1/B3/B8/B18/B19/B26
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-ML1: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD:B40
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)
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 support	SMS (text/data)

## POWER

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	170 mAh Li-Ion, 3.7 V battery (0.63 Wh)
Internal fuse	3A, 125V
Power consumption	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 < 2A Max. (with full Load / Peak)

## BLUETOOTH

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support

## PHYSICAL SPECIFICATION

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

## 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
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Operating humidity	5% to 95% non-condensing
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Ingress Protection Rating	IP41
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Battery charge temperature	0 °C to +45 °C
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Battery discharge temperature	-20 °C to +60 °C
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Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months
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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 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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## FEATURES

Sensors	Accelerometer
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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, Jamming*
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth), FMBT mobile application (Configuration)
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	LLS (Analog), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)
	* Jamming feature supported only on hardware`s with SLM320-E and SLM320-LA