

Product Specifications: FMC150

Features	
Installation	Requires installation
Portal	Real time tracking supported by our own tracking platform
Immobiliser	Remotely immobilise your vehicle in the event of a theft
Crash detection	Using the inbuilt accelerometer, track your vehicle and be alerted in the event of a crash
Eco-driving	Monitor how your efficiency with Eco-driving analysis, by measuring acceleration, braking and cornering
Speeding detection	Keep your vehicle safe by monitoring driver behaviour
Jamming detection	Disrupt thieves using GNSS jamming to steal from your vehicles (<i>Jamming detection supported with SLM320-E and SLM320-LA modules</i>)
GNSS Fuel Cou	nter Measure fuel consumption and the rate of fuel consumption
Excessive idlin detection	Monitor your vehicles idling times and save money
Unplug detection	Get an alert if the tracker is removed, which stops tampering with the device and ensuring your protection
Towing detecti	on Get alerted if your vehicle is being towed
Geofencing	Get geofencing alerts using user-defined areas
CAN Data	Fuel Level (Dashboard), Total fuel consumption, Vehicle speed (wheel), Vehicle driven distance, Engine speed (RPM), Accelerator pedal position
Supported protocols	OEM, J1939, IES500, IES125
Sensors	Accelerometer
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration a firmware updat	
SMS	Configuration, Events, DOUT control, Debug
GPRS command	ls Configuration, DOUT control, Debug
Time	GNSS, NITZ, NTP
Synchronizatio	
Ignition detecti	on Digital Input 1, Accelerometer, External Power Voltage, Engine RPM



Module		
Name	FMC150-QJIB0: Qı	uectel EG915U-EU with Teltonika TM2500
	FMC150-QKIBO: Q	uectel EG915U-LA with Teltonika TM2500
Techno	ology LTE Cat 1/GSM/GF	PRS/GNSS/BLUETOOTH

GNSS		
GI	22N	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Re	eceiver	33 tracking channels
		99 acquisition channels
Tr	racking	-165 dBM
SE	ensitivity	
Po	osition Accuracy	< 2.5 m CEP
Ho	ot start	<1s
W	Varm start	< 25 s
Co	old start	< 35 s
Ve	elocity Accuracy	< 0.1 m/s (within +/- 15% error)

Cellular		
	Technology	LTE Cat 1, GSM
	2G bands	FMC150-QJIB0: GSM: B2/B3/B5/B8
		FMC150-QKIBO: GSM: B2/B3/B5/B8
	4G bands	FMC150-QJIBO: LTE FDD: B1/B3/B7/B8/B20/B28
		FMC150-QKIBO: LTE FDD: B2/B3/B4/B5/B7/B8/B28/ B66
	Data transfer	LTE: LTE FDD : Max 10Mbps (DL)/Max 5Mbps (UL)
		LTE TDD: Max 85.6 Mbps (DL)/Max 85.6 Mbps (UL)
		GSM: GPRS: Max 85.6Kbps (DL)/ Max 85.6Kbps (UL)
	Data support	SMS (text/data)

Power		
	Input voltage	10–30 V DC with overvoltage and reverse polarity protection
	range	
	Internal Back-up	170 mAh Li-Ion battery, 3.7 V (0.63 Wh)
	battery	
	Power	At 12V < 6mA (Ultra Deep Sleep)
	consumption	At 12V < 8mA (Deep Sleep)
		At 12V < 11mA (Online Deep Sleep)
		At 12V < 20mA (GPS Sleep)
		At 12V < 35 mA (Nominal with no load)
		At 12V < 250 mA Max. (with full Load / Peak)



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

Interface	
Digital Inputs	FMC150-QJIBO: 3
	FMC150-QKIBO: 2
Negative Inputs	FMC150-QJIBO: 1 (Digital Input 2)
	FMC150-QKIBO: –
Impulse Inputs	FMC150-QJIBO: 2 (Digital Input 1, Digital Input 2)
	FMC150-QKIBO: 1 (Digital Input 1)
Digital Outputs	FMC150-QJIBO: 2
	FMC150-QKIBO: 3
Analog Inputs	FMC150-QJIBO: 2
	FMC150-QKIBO: 1
CAN interfaces	2
1-Wire	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	3
SIM	Micro-SIM or eSIM
Memory	128MB internal flash memory

Physical specification		
	Weight	55 g
	Dimensions	65 x 56.6 x 20.6 mm (L x W x H)

Operating environment		
t	Operating emperature without battery)	-40 °C to +85 °C
t	Storage emperature without battery)	-40 °C to +85 °C
0	Operating humidity	5% to 95% non-condensing



Operating environment		
	Ingress Protection	IP41
	Rating	
	Battery charge	0 °C to +45 °C
	temperature	
	Battery discharge	-20 °C to +60 °C
	temperature	
	Battery storage	-20 °C to +45 °C for 1 month
	temperature	-20 °C to +35 °C for 6 months

Certification & approvals		
Regu	latory CE/RED, E-M	ark, RCM, RoHS, REACH