FTC164

Next-generation waterproof 4G LTE Cat 1 tracker with high-capacity battery

Trailer security and tracking

Construction vehicles solutions

Agriculture transport solutions

Cold chain monitoring

Water transport monitoring

IP69K WATERPROOF CASING

The ultimate protection against dust, high pressure water, and steam

PROLONGED AUTONOMOUS USAGE

Large-capacity 2,600 mAh internal backup battery for extended device operation time

LONGER PERFORMANCE, SLOWER DRAINAGE

Optimised sleep modes allow the device to operate on its own for an extended period of time and significantly reduce vehicle battery drainage

EXTENDED PRODUCT USAGE SCENARIOS

Bluetooth® 5.4 ensures stable and reliable coverage for precise sensor detection

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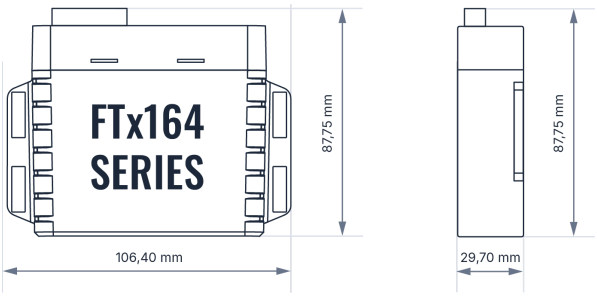

Product	
Model name	**FTC164-MDAB0** **FTC164-MEAB0**
Module	
Name	**FTC164-MDAB0**: MeiG SLM336-E **FTC164-MEAB0**: MeiG SLM336-L
Technology	LTE CAT 1/GSM/GPRS/GNSS/BLUETOOTH® LE
GNSS	
GNSS	GPS, GLONASS, GALILEO, BEIDOU
Receive type	135 tracking/acquisition channels
Tracking sensitivity	-165 dBM
Position Accuracy	< 1.8 m CEP
Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cellular	
Technology	LTE CAT 1/GSM
2G bands	**FTC164-MDAB0:** GSM: B2/B3/B5/B8 **FTC164-MEAB0:** GSM: B2/B3/B5/B8
4G LTE bands	**FTC164-MDAB0:** LTE-FDD (CAT1): B1/B3/B5/B8/B20/B28 **FTC164-MEAB0:** LTE-FDD (CAT1): B2/B3/B4/B5/B7/B8/B28/B66
Data transfer	LTE FDD (CAT 1): Max. 10 Mbps (DL) / Max. 5 Mbps (UL) GSM (GPRS): Max. 85.6 Kbps (DL) / Max. 85.6 Kbps (UL)
Transmit power	Class 4 for GSM850/900: 33±2dBm Class 1 for GSM1800/1900: 30±2dBm Class 3 for LTE FDD: 23±2.7dBm
Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP)
Data codec	
Codec support	Codec 8 Extended

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Power	
Input voltage range	8-32 V DC
Internal Back-up battery	2600mAh Li-Ion battery, 3.7V (9.620 Wh)
Internal fuse	3A, 125V
Power consumption	At 12V < 26 mA (nominal with no load) At 12V < 0.25A Max (with full Load/Peak) At 12V Online deep sleep < 9.71 mA At 12V Deep sleep < 2.33 At 12V power off sleep < 0.28 mA At 4V Online deep sleep < 23.35 mA At 4V Deep sleep < 5.823 At 4V Power off sleep < 0.181 mA

Bluetooth® Technology	
Specification	BLE 5.4 + LE

Physical specification	
Dimensions	87.75 x 106.40 x 29.70 mm (L x W x H)
Weight	147g

Operating environment	
Operating temperature (without battery)	-30°C to +85°C
Storage temperature (without battery)	-30°C to +85°C
Operating temperature (with battery)	-20°C to +60°C
Storage temperature (with battery)	-10°C to +25°C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP69K
Battery charge temperature	0°C to +45°C
Battery discharge temperature	-20°C to +60°C
Battery storage conditions	-10°C to +50°C - 1 month -10°C to +35°C - 3 months 0°C to +30°C - 12 months

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Interface	
Digital Inputs	5
Negative Inputs	1
Digital Outputs	4
Analog Inputs	5
1-Wire	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	USB 2.0 USB Type-C
LED indication	2 status LED lights
SIM	Nano-SIM
Memory	128MB internal flash memory

Features	
Sensors	Accelerometer
Scenarios	Eco Driving, Over Speeding, Idling Detection, Imobilizer, Unplug Detection, Jamming Detection, Crash Detection, Dallas Sensor Support, Towing Detection
Sleep modes	Online Deep Sleep, Deep Sleep, Power Off Sleep
Configuration and firmware update	FOTA WEB, Telematics Configuration Tool (TCT)
SMS	Configuration, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NTP, NITZ
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage

Certification & approvals	
Regulatory	*TBD*

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