



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

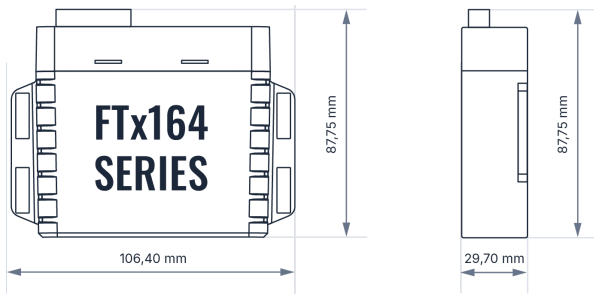
Large-capacity 2,600 mAh internal backup battery for extended device operation time

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



Product

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| Model name | FTC164-MDABO FTC164-MEABO |
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Module

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| Name | FTC164-MDABO: MeiG SLM336-E FTC164-MEABO: MeiG SLM336-L |
| Technology | LTE CAT 1/GSM/GPRS/GNSS/BLUETOOTH® LE |

GNSS

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|----------------------|-----------------------------------|
| 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

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| Technology | LTE CAT 1/GSM |
| 2G bands | FTC164-MDABO: GSM: B2/B3/B5/B8 FTC164-MEABO: GSM: B2/B3/B5/B8 |
| 4G LTE bands | FTC164-MDABO: LTE-FDD (CAT1): B1/B3/B5/B8/B20/B28 FTC164-MEABO: 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

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| Codec support | Codec 8 Extended |
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Power

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|--------------------------|---|
| 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

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| Specification | BLE 5.4 + LE |
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Physical specification

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

Operating environment

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| 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 |

Interface

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| 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

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| Sensors | Accelerometer |
| Scenarios | Eco Driving, Over Speeding, Idling Detection, Immobilizer, 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

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| Regulatory | TBD |
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