



FM-Plug4
FM-Plug4+

FM-Plug4

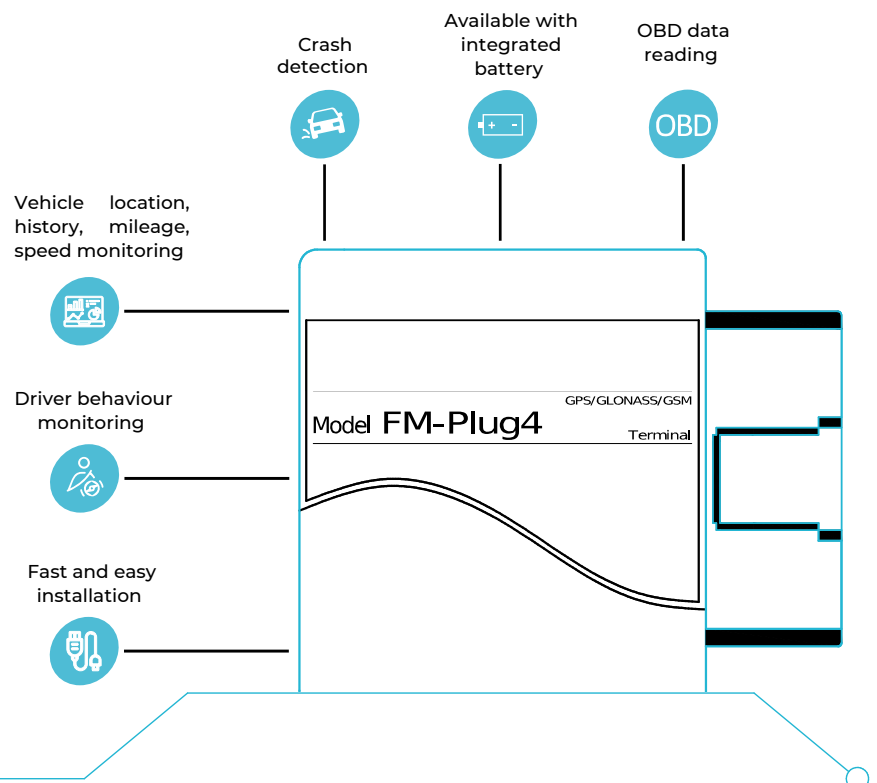
FM-Plug4 is a Plug&Play type GPS tracking device that connects to the vehicle via the OBD2 socket.

Fast and simple installation reduces installation costs and allows on-the-spot presentation of the device.

The device is also available with an integrated battery – **FM-Plug4** version.

Applications

- Monitor vehicles with a super-fast and easy installation
- Reduce operational costs and increase productivity
- Enhance your fleet with driver monitoring
- Car rental and sharing solutions



Detailed specifications

	FM-Plug4	FM-Plug4+
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Environmental specifications

Temperature	Operating: -35 to +60 °C Storage: -40 to +65 °C	Operating: -35 to +60 °C Storage: -40 to +65 °C Battery charging: 0 to +45 °C Battery discharging: -20 to +60 °C Battery storage: -20 to +70 °C
Relative humidity	0% to 95% Non-condensing	

Electrical specifications

Power supply range	10 – 32 V DC	
Power supply voltage	12 / 24 V DC	
Maximum voltage ratings	50 V @ 60 s 72 V @ 0.1 s	
Maximum current rating	250 mA @ 12 V DC	350 mA @ 12 V DC
Internal battery	- LiPo 3.7 V 190 mAh	
Protections	Reverse polarity protection Electrostatic discharge protection on USB Electrostatic discharge protection on SIM card slot Battery short circuit protection (only for FM-Plug4+) Charging protection (only for FM-Plug4+) 2 amp fuse on the power line	

Power consumption @ 12 V DC

Operating (battery fully charged)	Idle mode: 38.0 mA Active mode (peak @ GSM): 52.1 mA Deep sleep mode: 6.8 mA	
Operating while charging battery	-	Idle mode: 110.0 mA Active mode: 124.8 mA Deep sleep mode: 74.1 mA

Connectivity

GSM	Modem: Quectel M95 Antenna: Internal (Quad-band) Frequency band @ GSM: 850/900/1800/1900 MHz (GPRS multi-slot class 12)
GNSS module	Modem: U-blox EVA-M8M Antenna: Internal Augmentation system: QZSS, SBAS (WAAS, GAGAN, EGNOS, MSAS) Frequency: 1575.42 MHz (GPS); 1602 MHz (GLONASS) Channels: 72 Tracking sensitivity: -164 dBm (GPS); -163 dBm (GLONASS) Reacquisition sensitivity: -159 dBm (GPS); -156 dBm (GLONASS) Cold start duration: < 30 s Aided start: As low as 3 s Navigation update rate: 10 Hz Horizontal position accuracy: 2.5 m (CEP, 50%, 24 hours static, -130 dBm, > 6 SVs)

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Interfaces

User interfaces	OBD II Connection Mini USB interface 1 Indication LED Microphone
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Features

Internal storage	4 MB (max. 30000 records)
Accelerometer	Built-in 3-axis (auto-calibrating, impact detection, motion sensing, tilt detection, g-force up to 4 g)

Certifications and ratings

Certifications	E-mark, RoHS
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Physical properties

Dimensions	63 x 52 x 28 mm
Weight	66 ± 10 g
Housing	Plastic

Ordering information

FM-Plug4	FM-Plug4 with OBD without battery
FM-Plug4+	FM-Plug4 with OBD and integrated battery