

FM-Eco4 light T is a tracking device (2G) without an internal battery and with regular housing, small size and internal antennas.

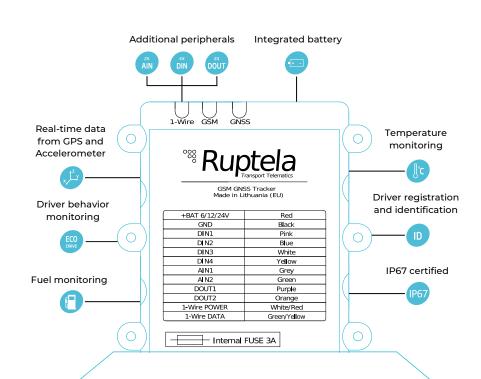
FM-Eco4 light+ T is a tracking device (2G) with regular housing, small size and internal battery, antennas.

FM-Eco4+ T is a tracking device (2G) with rugged IP67 certified housing that can be installed outside the cabin and successfully resist environmental factors such as water and dirt.

FM-Eco4+ ET is a tracking device (2G) with rugged IP67 certified housing and an external antenna, which allows the device to be installed in areas that are hard to find and access.

Applications

- Safety & security
- Driver behaviour monitoring
- Fuel monitoring
- Fleet management
- Logistics
- Automotive OEM
- Trailer tracking
- Rental and leasing
- Corporate fleets





Detailed specifications

FM-Eco4 light T FM-Eco4 light+ T FM-Eco4+ T FM-Eco4+ E T

Environmental specifications

Temperature Operating: -20 to +60 °C Storage: -20 to +60 °C

Battery charging: -20 to +60 °C
Battery discharging: -20 to +60 °C

Relative humidity 5% to 95% Non-condensing

Electrical specifications

Power supply range $6 \div 31.5 \text{ V DC}$

Maximum current rating 500 mA @ 6 V DC

Internal battery - LiPo 3.7 V 190 mAh

Protections Battery short circuit protection (not applicable for FM-Eco4 light T)

Reverse polarity protection

Overcurrent protection on 1-Wire power line

Power consumption @ 12 V DC

Operating Idle mode: 33 mA (battery fully charged) Active mode (peak @ GSM): 135 mA

Active mode (peak @ GSM): 135 mA Sleep mode: 7 mA Deep sleep mode: 4 mA

Connectivity

GSM Modem: Quectel M95

Antenna: Internal (Quad-band)

Frequency band @ GSM: 850/900/1800/1900 MHz

GNSS module Module: U-blox EVA-M8M

Antenna: Internal or external (FM-Eco4+ E T only)

Positioning systems: GPS, GLONASS, Galileo

Augmentation systems: QZSS, SBAS (WAAS, GAGAN, EGNOS, MSAS)

Aided start services: AssistNow Online

Frequency: 1575.42 MHz (GPS, Galileo); 1602 MHz (GLONASS)

Tracking sensitivity: -154 to -164 dBm
Reacquisition sensitivity: -152 to -160 dBm
Cold start duration: < 30 s
Aided start duration: As low as 3 s



Detailed specifications

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Interfaces

4 x Digital inputs Voltage range: 0 - 30 V DC

Voltage threshold: 4 V DC Invertible inputs: 2 (DIN3/DIN4)

Voltage threshold when inverted: 250 mV DC

2 x Analog inputs Voltage range: 0 - 30 V DC

Resolution: 12 bit

2 x Digital outputs Maximum voltage: 32 V DC

Maximum current: 1 A @ 25 °C

1-Wire interface Power output: 0 mA @ 5 V DC

Power output: 100 mA @ 4.67 V DC Maximum cable capacitance: 4 nF

User interfaces Mini USB interface

3 x Indication LEDs

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, CE, RoHS, WEEE, EAC

IP Rating – IP67

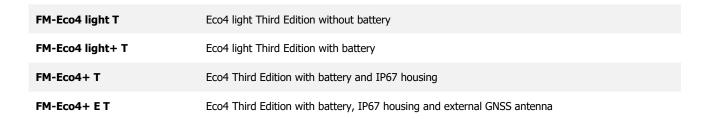
Physical properties

Dimensions 65 x 61 x 22 mm 95 x 77 x 29 mm

Weight $59 \pm 5 \, q$ $65 \pm 5 \, q$ $148 \pm 5 \, q$ $185 \pm 5 \, q$

Housing Plastic

Ordering information



Contact information:

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