

FM-Eco4 light+ 3G T FM-Eco4+ 3G T FM-Eco4+ 3G E T

FM-Eco4 3G T Series

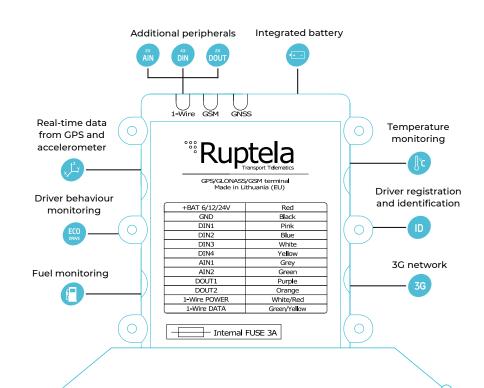
FM-Eco4+ light 3G T is a tracking device (3G/2G) with regular housing, small size and internal antennas.

FM-Eco4+ 3G T is a tracking device (3G/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+ 3G E T is a tracking device (3G/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+ 3G T FM-Eco4+ 3G T FM-Eco4+ 3G 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

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): 138 mA

Active mode (peak @ GSM): 138 mA Sleep mode: 6.3 mA Deep sleep mode: 4 mA

Connectivity

GSM/UMTS modem Modem: Quectel UG96

Antenna: Internal (Quad-band)

Frequency band @ 2G (GSM): 850/900/1800/1900 MHz Frequency band @ 3G (UMTS): 800/850/900/1900/2100 MHz

GNSS module Module: U-blox EVA-M8M

Antenna: Internal or external (FM-Eco4+ 3G 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



	FM-Eco4 light+ 3G T		FM-Eco4+ 3G T	FM-Eco4+ 3G E T
Interfaces				
4 x Digital inputs	Voltage range: Voltage threshold: Invertible inputs: Voltage threshold w	when inverted	0 - 30 V DC 4 V DC 2 (DIN3/DIN4) 1: 250 mV DC	
2 x Analog inputs		0 - 30 V DC 12 bit		
2 x Digital outputs	Maximum voltage: Maximum current:			
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, FCC, RoHS, WEEE, EAC			
IP Rating	-		IP67	
Physical properties				
Dimensions	65 x 61 x 22 mm		95 x 77 x 29 mm	

Ordering information

Weight

Housing



 $65 \pm 5 g$

Plastic

FM-Eco4 light+ 3G T	Eco4 light Third Edition with battery and 3G (UMTS)		
FM-Eco4+ 3G T	Eco4 Third Edition with battery, IP67 housing and 3G (UMTS)		
FM-Eco4+ 3G E T	Eco4 Third Edition with battery, IP67 housing, external GNSS antenna and 3G (UMTS)		

 $148 \pm 5 g$

 $185 \pm 5 g$

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