



FM-Eco4 light

FM-Eco4 light is a compact GPS tracker for vehicle tracking. The device has an internal GPS & GSM antenna making it small and very easy to install.

FM-Eco4 light is also available with an integrated battery – FM-Eco4 light+.

The device communicates using GSM (2G) networks.

Key features

- Real-time data from GPS and accelerometer
- Driver behaviour monitoring (Eco-Drive)
- Driver registration and identification
- Temperature monitoring
- Remote ignition blocking
- Internal geozones
- Jamming detection
- Commands and configuration via SMS
- Supports additional sensors

	FM-Eco4 light	FM-Eco4 light+
Environmental specifications		
Temperature	Operating: -30 to +60 °C Storage: -40 to +65 °C	Operating: -30 to +60 °C Storage: -40 to +65 °C Battery charging: 0 to +45 °C Battery discharging: -20 to +60 °C Battery storage: -20 to +60 °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	150 mA @ 12 V DC	
Internal battery	-	LiPo 3.7 V 190 mAh
Protections	1-Wire power line short circuit protection Reverse polarity protection Internal F2 type slow-blow 1 A fuse Battery short circuit protection (only for FM-Eco4 light+)	
Power consumption @ 12 V DC		
Operating	Idle mode: 41.6 mA Active mode: 64.7 mA Sleep mode: 13.3 mA Deep sleep mode: 6.8 mA	
Operating while charging battery	-	Idle mode: 114.1 mA Active mode: 142.8 mA Sleep mode: 84.1 mA Deep sleep mode: 77.1 mA
Connectivity		
GSM	Modem: Quectel M95 Antenna: Internal (Quad-band) Frequency band @ GSM: 850/900/1800/1900 MHz	

	FM-Eco4 light	FM-Eco4 light+
GNSS (GPS, GLONASS) module	Modem: U-blox EVA-M8M Antenna: Internal Frequency: 1575.42 MHz (GPS); 1602 MHz (GLONASS) Channels: 72 Tracking sensitivity: -164 dBm Reacquisition sensitivity: -160 dBm Cold start duration: < 30 s Aided start: 3 s	
Interfaces		
4 x Digital inputs (DIN)	Voltage range: 0 - 30 V DC Voltage threshold: 4 V DC	
2 x Analog inputs (AIN)	Voltage range: 0 - 30 V DC Resolution: 12 bit	
2 x Digital outputs (DOUT)	Maximum voltage: 32 V DC Maximum current: 1 A	
1-Wire interface	Power output: 80 mA @ 4.1 V DC Maximum cable capacity: 4 nF	
User interfaces	Mini USB interface 3 x Indication LEDs	
Features		
Internal storage	4 MB (max. 30000 records)	
Accelerometer	3-axis auto-calibrating; g-force up to 4 g	
Certifications and ratings		
Certifications	E-mark, CE, RoHS	
Physical properties		
Dimensions (L x W x H)	65 x 61 x 22 mm	
Weight	70 ± 10 g	
Housing	Plastic	

Ordering information

FM-Eco4 light	Eco4 light tracking device
FM-Eco4 light+	Eco4 light tracking device with battery

Warnings

All internal components including the battery must be replaced only by the manufacturer! Any self-willed attempt to repair or change any components will void the warranty.



Caution! The devices are shipped to the users with partially charged batteries. After the first power up the device must not be used with the battery. It must be connected to an external power source until the battery is fully charged. Once charging is complete, the device can begin its normal operation.



Caution! There is a risk of explosion if the battery is replaced with a battery of an incorrect type. Dispose of used batteries according to environmental requirements.



Waste equipment should not be disposed of with your other household waste. The product must be taken to separate collection points at the product's end-of life.

Document application

Given parameter values and various characteristics within this document apply only to the most recent device hardware version.

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