Eco5

- Maintenance cost reduction
- Stolen vehicle recovery
- Driver identification
- Real-time fleet monitoring
- Fleet efficiency optimization
- Driver behavior monitoring
- Fuel monitoring

LTE CAT1 and LTE-M connectivity with 2G fallback

3-axis accelerometer

BLE 5.0

u-blox GNSS module

Internal backup battery

Operating temperature -20 °C to +40°C

Jamming detection

Power supply 9-32 V

Internal GNSS antenna

FW configuration SMS/GPRS (FOTA)/USB

1- wire connection

Key values:

Easy installation & use – small size, screwless housing design, dedicated software tools (Device center, DMP), wireless solutions.

Excellent GNSS performance – u-blox M10 generation GNSS receiver used.

Versatility – suitable for both Heavy Duty and Light Duty vehicles. Various BLE accessories for temperature, humidity as well solutions based on BLE beacon detection (Asset tracking, Trailer tracking etc.)

Secure – jamming detection, unplug detection, backup battery, TLS v1.2 for end-to-end encryption.

Small size – compact design allows for more installation versatility.

Low power consumption – as low as < 0.5 mA at 12 V DC in Sleep mode.

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Technical information

	Eco5-12W-LTE-EMEA-IP54	Eco5-12W-LTE-LA-IP54	Eco5-12W-LTM-IP54
Electrical specifications			
Power supply range	9 - 32 V DC		
Internal battery	LiPo 3.7 V 180 mAh		
Protections	Battery short circuit protection, Reverse polarity protection, Electrostatic discharge protection on USB, Charging protection		
Lowest Power consumption	< 0.5 mA @ 12 V DC		
Connectivity & Hardware specification			
Connectivity	LTE Cat 1: B1/B3/B5/B7/B8/B20/B28 GSM: 850/900/1800/1900 MHz (GPRS multi-slot class 12)	LTE Cat 1: B2/B3/B4/B5/B7/B8/B28/B66 GSM: 850/900/1800/1900 MHz (GPRS multi-slot class 12)	LTE Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 GSM: 850/900/1800/1900 MHz (GPRS multi-slot class 33)
BLE	5.0		
GNSS	Module: u-blox M10 Antenna: Internal Positioning systems: GPS, GLONASS, Galileo Augmentation systems: QZSS, SBAS (WAAS, GAGAN, EGNOS, MSAS) Aided start services: AssistNow Online (A-GPS) Tracking sensitivity: -167 to -168 dBm Reacquisition sensitivity: -160 dBm Cold start duration: < 30 s Aided start: As low as 1 s Navigation update rate: 10 Hz Horizontal position accuracy: 1.5 m (CEP, 50%, 24 hours static, -130 dBm, >6 SVs for each GNSS system)		
Acceleremeter	3 axis (auto-calibrating, impact detection, motion sensing, tilt detection, power up to 16 g)		
I/O Interfaces	1 DIN (ignition detection), 3 DIN (positive/ground mode), 2 DOUT, 2 AIN/DIN (positive/ground mode), 1-wire (power/data)		
SIM Slot	Nano SIM		
USB port	Micro USB		
Additional indications	1xLED		
Device management	Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely		

Enviromental specifications	
Temperature	Operating: -20 to +40 °C Operating (without battery): -30 to +75 °C Storage: -20 to +45 °C Battery charging: 0 to +45 °C Battery discharging: -20 to +60 °C
Humidity	5% to 95% Non-condensing

Certifications			
Certifications	CE /E-mark	FCC/Anatel	CE/E-mark/FCC

Physical properties	
Dimensions	95mm x 51mm x 14mm
Weight	90g +/- 2g with harness
Housing	Black Plastic
Standard harness length	~700 mm
External fuse	1 A

Ordering information

Eco5-12W-LTE-EMEA-IP54	12-wire version with LTE Cat-1 and 2G fallback network support for the EMEA region in IP54 housing.
Eco5-12W-LTE-LA-IP54	12-wire version with LTE Cat-1 and 2G fallback network support for the Latin America region in IP54 housing.
Eco5-12W-LTM-IP54	12-wire version with LTE Cat-M1/NB2 and 2G fallback network support in IP54 housing.

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