

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

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-IP68

Eco5-12W-LTE-LA-IP68

Eco5-12W-LTM-P68

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)		
Acceloremeter	3 axis (auto-calibrating, impact detection, motion sensing, tilt detection, g-force up to 16 g)		
I/O Interfaces	1 DIN (ignition detection), 3DIN (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): -20 to +60 °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
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Physical properties

Dimensions	98mm x 56mm x 21.5mm
Weight	103g +/- 2g with harness
Housing	Black Plastic
Standard harness length	~700 mm
External fuse	1 A

Ordering information

Eco5-12W-LTE-EMEA-IP68	12-wire version with LTE Cat-1 and 2G fallback network support for the EMEA region in IP68 housing.
Eco5-12W-LTE-LA-IP68	12-wire version with LTE Cat-1 and 2G fallback network support for the Latin America region in IP68 housing.
Eco5-12W-LTM-IP68	12-wire version with LTE Cat-M1/NB2 and 2G fallback network support in IP68 housing.

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