



- Real time process monitor
- OBD reading
- Tachograph data reading
- Light vehicle CAN support
- J1708 interface

PHYSICAL PROPERTIES

Dimensions, mm	111 x 75 x 25
Connectors	IO 1 - 10pin IO 2 - 14pin
Indication	3 LEDs
Housing	Plastic

PRODUCT FAMILY

- ◆ ECO4/ECO4+
- ◆ ECO3
- ◆ PRO4
- ◆ PRO3
- ◆ TCO4
- ◆ **TCO3**

CONTACTS

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Electrical specification

Power supply	10 - 32 V DC
Battery	Li-Po 3.7 V 680 mAh
Power consumption	
Deep sleep mode	20 mA*
Normal mode	110 mA
SD card	Up to 32 GB
Protections	
Short circuit protection	
Reverse polarity protection	
Electrostatic discharge protection on USB	
Electrostatic discharge protection on 1-wire data	
Over-current protection on 1-Wire power	
Electrostatic discharge protection on sim card slot	

* For firmware lower than 2.23, consumption might be different

Telecommunication, Positioning

GPS/GLONASS module	Ublox MAX-7C
Internal	56 channel
Sensitivity	-161 dBm
Cold start	29 s
Aided start	5 s
Reacquisition	1 s
GPS antenna	External
Frequency	1575.42 ± 3 MHz
GSM modem	SIM900 or SIM900r
Internal	
GSM850\GSM900\DCS1800\DCS1900	GSM900\GSM1800
GSM antenna	Internal
GSM850\GSM900\DCS1800\DCS1900	GSM900\GSM1800
Accelerometer	3-axis; 2g/4g/8g/16g

Peripherals available

Available on 1-wire	Available on DOUTs	Available on RS232\RS485
4 x Temperature sensors DS18B20/DS18S20	1 x Buzzer\LED	Up to 10 LLS digital fuel sensor
1 x iButton DS1990 with passive socket	1 x Eco driving panel	Garmin
	Ignition lock	ThermoKing support

I/O Characteristics

4 x DIN	Digital inputs
Threshold	4 V
2 x DOUT	Digital outputs
Max output	Open collector 32 V, 1 A max
2 x AIN	Analog inputs
Input range	0 - 30 V
1 - Wire	1-Wire peripherals
Output current	80 mA
2 x RS232	TX, RX**
1 x RS485	J1708 interface compatible**
OBD interface	K-line and L-line
CAN interface	CAN H, CAN L
3.5mm TRRS	Microphone connection***
USB	Configuration interface

** 2x RS232 or 1x RS232 and 1x RS485

*** Adapter needed (Please contact your agent)

Environmental data, reliability, certification

Storage temperature	-40 - +65
Operating temperature	-35 - +55
When operating from battery	-20 - +40

Essential requirements	Confirmed standards
Safety	EN 60950
R&TTE, Article 3.1(a)	1:2006+A11:2009
EMC	EN 301 489-1 V1.6.1
R&TTE, Article 3.1(b)	EN 301 489-7 V1.3.1
Radio Spectrum	EN 301 511 (v9.0.2)
R&TTE, Article 3.2	
Environmental testing. Part 2-64. Tests – Test Fh: Vibration, broadband random and guidance	LST EN 60068-2-64:2008
(IEC 60068-2-64:2008)	