



- Real time process monitor
- Highly configurable data sending
- Firmware update via GPRS or Mini USB
- Any element event triggers
- ECO-drive from accelerometer

PHYSICAL PROPERTIES

Dimensions, mm	111 x 75 x 25
Connector	IO 1 - 10pin
Indication	2 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
Power consumption:	
Deep sleep mode min. value	20 mA*
Normal mode	110 mA

Storage

Internal storage	2 MB
Minimum records on internal storage	16000

Protections

- Short circuit protection
- Reverse polarity protection
- Electrostatic discharge protection on USB
- Electrostatic discharge protection on sim card slot

* Depends on configuration. For firmware lower than 2.33, 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\DCS1800
GSM antenna	Internal
GSM850\GSM900\DCS1800\DCS1900	GSM900\DCS1800
Accelerometer	3-axis; 2g/4g/8g/16g

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
Resolution	12 bit
USB	Configuration interface

Environmental data, reliability, certification

Storage temperature	-40 - +65
Operating temperature	-35 - +55

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)	

Peripherals available

Available on AINs
Analog temperature sensors
Analog fuel sensors