



- Real time process monitor
- Highly configurable data sending
- Up to 10 LLS on RS485
- Up to 32 GB micro SD card
- Internal power supply

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 2.43, 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\DCS 1800\DCS1900	GSM900\GSM1800
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
1 - Wire	1-Wire peripherals
Output current	80 mA
2 x RS232	TX, RX***
1 x RS485	TX, RX***
CAN interface	CAN H, CAN L
3.5mm TRRS	Microphone connection**
USB	Configuration interface

** Adapter needed (Please contact your agent)

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

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.	LST EN 60068-2-
Part 2-64. Tests – Test	64:2008
Fh: Vibration, broadband	
random and guidance	
(IEC 60068-2-64:2008)	

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 Ignition lock	RFID Garmin