

- ✓ **Industry leading pricing**
- ✓ **12 / 24V Operation**
- ✓ **<1mA Low power**
- ✓ **Backup battery**
- ✓ **CAN / EOBD Interfaces**
- ✓ **Flexible Firmware**
- ✓ **Web Configuration & deployment**
- ✓ **European & US Approved**
- ✓ **Tyco Automotive Approved Manufacturing**
- ✓ **Proven track record**



Specification

Power

Input Voltage	6 – 32V
Input Current	
Running	60 mA Avg. (peak <1A) @12V
Sleep	<400uA @12V
Protection	Overvoltage protection Reverse power connection Internal self resetting fuse
Battery	6V/0.5Ah/1.3Ah Lead Acid Integrated battery charger Deep discharge protection

Application Processor

Processor	Arm 7 running at 48MHz
RAM	8Mbit
FLASH	32Mbit
Modes:	Running / Sleep
Wake-up on	Ignition, Inputs, Dallas, Ring Indication, Timed, Power loss, Low battery
Other features	Real time clock Hardware Watchdog

Inputs, Outputs & Sensors

- Trembler device
- 2 x CAN 2.0A & 2.0B interface
- Dallas 1-Wire interface
- Red & Green LED indicator
- External LED & button
- Ignition input
- 3 x External Inputs – voltage sense type
- 3 x External Outputs – protected FET type
- RS232C serial interface
- Internal battery voltage monitoring
- External supply voltage monitoring
- External peripheral power supply (3.3V/100mA)
- Internal expansion connector for add-on peripheral board (RFID receiver/CAN/K-Line/RS232)
- RJ9 Audio connector
- Micro SD Card holder

GPS Receiver

Type	Sirf III
Sensitivity	TBC
Accuracy	3 metres (CEP)
Other features	Antenna tamper detection

Modem

Type	Quad Band GSM
Frequency	850/900/1800/1900MHz Class 10
Power	1 / 2W
SIM support	1.8V, 3V

RFID Receiver

Frequency	433MHz
Range	10 / 100 metres

Mechanical

Size:	135x89x35.5mm 135x89x53.5mm (plus variant)
Weight:	TBD
Material:	PC 10%GF Black
Flammability	UL 94 V-0
Interfaces	SMA Female – GPS Antenna FME Male – GSM Antenna 25 Way 'D' Female Connector

Environmental

Operating	-30 C to +75 C
Storage	-40 C to +85 C (not including battery)
Humidity	85% Max (Non Condensing)
Sealing	IP65

Test & Qualification

European	CE & RTT&E, E Mark
North American	FCC, PTCRB
Other	RoHS Compliant

Communications

Methods	UDP, Socket, FTP, XMPP/Jabber, SMS, Voice
Logging	2000 messages

Accessories

- Fully populated 25 way cable
- Voice Kit
- Driver button

External Connections

Pin	Wire Colour	Function	Description	Abs Min	Typ	Abs Max	Units
1	Red	Vehicle Supply	Power input			32	V
2	Green/White	CAN0-H	CAN Bus		5		V
3	Black	GND	Ground	0			V
4	Brown	3.3V output	Aux power out		3.3	100	V I
5	Green	Serial RX0	RS232-Data input	-16		16	V
6	Orange/White	Serial RX1	Expansion board: RS232-Data input	-16		16	
7	Purple	input 0	Input	-32	12	32	V
8	Grey	input 1	Input	-32	12	32	V
9	White/Blue	input 2	Input	-32	12	32	V
10	Blue	Ignition	Ignition input	-32	12	32	V
11	Yellow	Button	External button input				
12	White	LED	External LED output				
13	Red/White		Expansion board: CAN Bus				
14	Black	Vehicle GND	Power ground				
15	Blue/White	CAN0-L	CAN Bus				
16	Black	GND	Ground				
17	White/Red	Serial TX0	RS232-Data output		5.5		
18	Orange	Serial TX1	Expansion board: RS232-Data output		5.5		
19	White/Green	output 0	Output			32 500	V mA
20	White/Orange	output 1	Output			32 500	V mA
21	White/Black	output 2	Output			32 500	V mA
22	Black/White	Dallas 1wire	Dallas i-Button signal				
23	Black	GND	Ground				
24	Black	GND	Ground				
25	Purple/White	CAN1-L	Expansion board: CAN Bus/				