

Product Pipeline

- preliminary product information

CrossLog LX1

– independent monitoring unit for CAN networks



The **CrossLog LX1** is a system independent monitoring device for CAN bus communication, designed for use in mobile applications. With its great capabilities of high performance recording of CAN messages the unit can monitor and store large quantities of information. The unit is developed to operate in harsh environments with extreme temperatures, vibrations, and exposure to dust and humidity.

For advanced monitoring

The CrossLog LX1 is a system independent monitoring unit for CAN bus communication. The device is capable of recording CAN messages up to 4 hours at a bit rate of 1Mbit/s with full bus load. The messages are logged in the widely-spread CANalyzer™ log format, which can be easily uploaded to analysis software.

Each logged CAN message is stored with 1 ms resolution time-stamp to the internal flash memory. With 4 GB flash and 1 Mbit/s CAN speed, the worst case life expectation is over 4 years. At lower speeds and lower bus utilization expected memory life is extended accordingly.

Future-proof your system

The CrossLog LX1 is a tool for making a control system more

secure and reliable. The history monitoring capability of the unit is an important user-value. For example, it is crucial to find out what happened in the vehicle operation before an accident occurred.

Black-box functionality

The CrossLog LX1 can take its supply voltage from the CAN bus, from an external power supply, or from the USB interface. This selection is done automatically, ensuring that CrossLog LX1 is up and running when there is traffic on the bus.

GUI for data access

Analysis and fault detection are simplified through the CrossLog LX1 web server that provides a GUI (Graphical User Interface) for maintenance and data retrieval via

the unit's USB port. The GUI is accessed via the USB port, easy plug-and-play!

Robust enclosure

The CrossLog LX1 has a full aluminium front cover and back plane. It is silicone moulded which gives the unit extraordinary resistance to shock loads and water/dust intrusion.

Tough in the rough

The module has state-of-the-art environmental characteristics, a result of CC Systems experience from demanding civil and military applications.

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SPECIFICATIONS

Kernel

Processor	Atmel AT91SAM9263
Flash memory	4 GB
RAM	128 MB
RTC	Real-time clock

Power

Voltage	8-36 VDC
Current	Less than 100 mA at 24 V
Back-up battery for RTC	Lithium PCB mount battery

Connectors

Power supply	DIN M12
CAN IN	DIN M12
CAN OUT	DIN M12
USB	DIN M12

Interface

CAN	1 pcs. ISO 11898 2.0B, 1 Mbit/s.
USB	1 pcs. Device ver. 2.0 full speed 12 Mbit/s

User interface

Graphical User Interface	Implemented using HTML 4.01 Strict DTD, and optimised for 800 x 600 resolution. Language: English.
Status LED	For monitoring unit operations and status.

Environment

IP class	IP67
Temperature range	-40 °C – +75 °C (operating) -40 °C – +75 °C (storage)

Mechanical

Enclosure	Fully aluminium with flanged lid for wall mounting.
Weight	Not known yet.

Dimensions

Length [mm]	225,5
Width [mm]	119,5
Height [mm]	34,6 (height including connectors 50,5 mm)



The content herein is preliminary and may be subject to change without further notice. Please contact your sales representative for more information.

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