

# CrossCore XA Logger

– independent monitoring unit



**CrossCore XA Logger is a system independent monitoring device for CAN bus communication. The unit can monitor and store large quantities of CAN based information and make efficient troubleshooting possible. With its state-of-the-art environmental characteristics it can be used in very harsh environments.**

CrossCore XA Logger is a tool for making a control system more secure and reliable. It records CAN network communication and makes it possible to perform advanced analysis of the system. In essence CrossCore XA Logger is a "black box" that ensures that data is available for investigation of machine malfunction.

Up-time and availability of industrial vehicles and machines can be improved through the diagnostics and efficient troubleshooting that CrossCore XA Logger enables.

#### For black-box monitoring

CrossCore XA Logger is a system independent monitoring unit of CAN traffic in a distributed control system with multiple can buses. At highest bit rate (1 Mbit/s) and full bus load it is capable of recording the last four hours of CAN messages.

CAN traffic is stored in the widely spread CANalyzer™ log format. Each CAN mes-

sage is recorded with 1 ms resolution time-stamp to the internal flash memory.

#### Secure performance

CrossCore XA Logger can take its supply voltage from the CAN bus, an external power supply or the USB interface. This selection is done automatically, ensuring that the unit is up and running when there is traffic on the bus. An energy reserve secures that all the data already logged can be safely stored to the flash memory even if the machine suddenly loses power.

#### GUI for data access

The built-in webserver in CrossCore XA Logger makes basic configuration and loading of application software easy. The unit is accessed by connecting a laptop, tablet PC or any device with a web-browser to the USB or Ethernet interface. This simplifies analysis and fault detection.

#### Robust enclosure

CrossCore XA Logger has state-of-the-art environmental characteristics. The aluminium enclosure is silicon moulded and gives the unit extraordinary resistance to shock loads and water/dust intrusion.

The robust DIN M12 connectors ensure reliable communication with other system components. The interfaces are well protected against electrical disturbances. Galvanically isolated CAN interfaces are optional.



Turn the page for technical specifications »

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## SPECIFICATIONS

### Kernel

Processor	ARM9, Atmel AT91SAM9263, 240 Mhz
ROM	256 MB NAND flash for operating system
RAM	128 MB SDRAM
Data storage	4 GB flash memory, optionally up to 8 GB

### HMI

Status led	Tricolor led status indicator with configurable behaviour
CAN status	Tricolor LED according to CAN-CiA DR-303
Ethernet status	Activity and Link LED indicator
Embedded web server	Built-in web server for configuration and program loading

### Interface

CAN	2 x CAN ISO 11898, 2.0B, max 1 Mbit/s
USB	0.5A, 5V
Ethernet	0.5A, 5V

### Power

Voltage	24 VDC nominal
Backup-up battery	Lithium PCB mount battery for RTC

### Environment

IP class	IP67
EMC conformity	2004/108/EC, EN61000-6-2:2005, EN61000-6-4:2007, ISO 14982:1998
Vibration	0.005-0.03 g <sup>2</sup> /Hz 5-1000 Hz 3,72 g (RMS)
Shock	30 g / 6 ms
Temperature range [°C]	-40 to +70 operating -40 to +85 storage

### Enclosure

Material	Die cast aluminium
Treatment	White cromated Powder coated paint
Connectors	DIN M12

