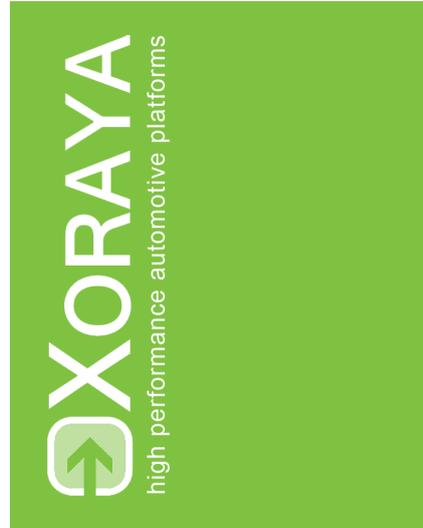


XORAYA Minilogger N4000



The XORAYA ML-N4000 is a compact and affordable automotive data logger capable of recording several bus systems simultaneously. Compared to its predecessor (XORAYA ML-Z7), it has significantly more powerful hardware, which records data with up to 4 Gbit/s. In addition, the logger is now equipped with an SFP+ interface (for 10GBase-T).

The data logger has 6x slots for individual interface configuration of the device. This is currently implemented for LS-CAN, HS-CAN, CAN FD, FlexRay, RS-232, LIN, Ethernet, 100/1000Base-T1 (OABR), PSI5 and analog signals; support of further bus systems is possible. Furthermore, Harman-Becker's GNLog protocol and the DLT protocol can be recorded via Ethernet and RS-232. The data is logged based on a precise, central timestamp with a resolution of 100 ns and either saved on the internal SSD or transferred to an external computer system via Ethernet interface. Optionally, the log data can also be stored on the additional device XORAYA External Storage Unit.

A built-in supercapacitor unit is able to bridge power fluctuations and to shut the data logger down safely in case of power failures.

The recording interfaces are located on the back of the data logger. All interfaces are implemented as plug-in cards, allowing a flexible configuration according to customer requirements. The pictures show a configuration example.

Specifications

- Central 100 ns timestamp for all interfaces
- Supercapacitor unit
- Battery-buffered real-time clock
- Data rate up to 4 Gbit/s
- Dimensions (H x W x D) 65 x 165 x 165 mm
- Temperature range -40 °C to +60 °C
- External operating voltage 6 V to 32 V
- Current consumption (standard configuration, PCAPs charged) max. 1 A (at 12 V)
- Current consumption (standby) max. 1 mA (at 12 V)
- Automatic sleep mode wake up by CAN, FlexRay, RS-232, LIN, PSI5, wakeline or trigger

Record Modes

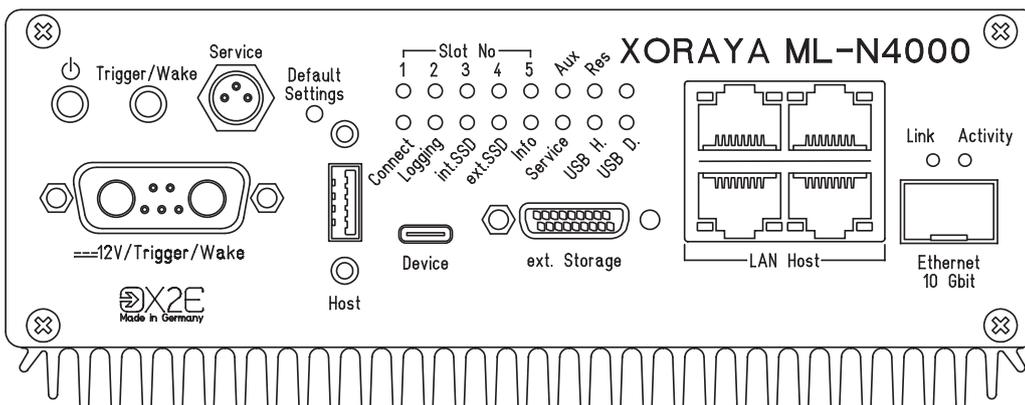
- On internal SSD and/or on XORAYA External Storage Unit
- Via Ethernet to PC

Software

- Logger OS: Embedded Linux
- XORAYASuite and XORAYASDK for Microsoft Windows

Delivery Contents

- XORAYA ML-N4000
- Power supply cable
- Software
- Manual
- XORAYA External Storage Unit (optional)
- ESU cable (optional)
- Cable set (optional)



Front view (configuration example)

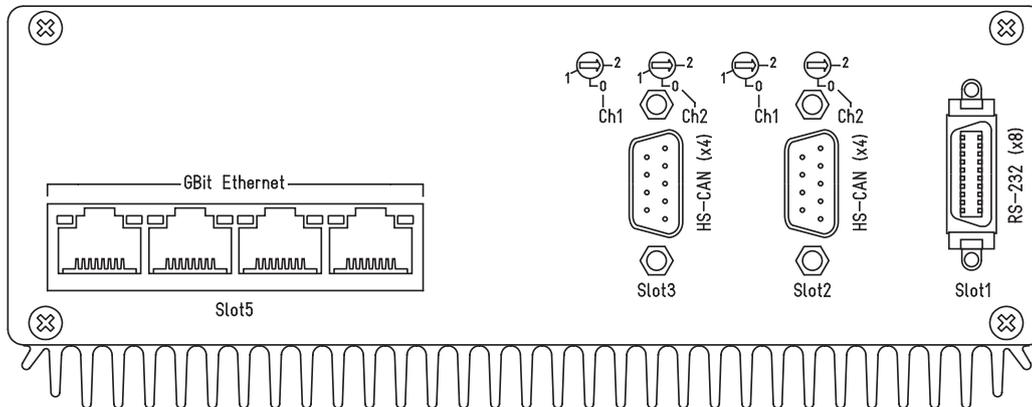
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Back view (configuration example)

Available Extensions

CAN Interface

- LS-CAN: 1 channel
- HS-CAN: 4 channels per slot
- CAN FD: 4 channels per slot

FlexRay Interface

- 1 single or 1 dual channel

RS-232 Interface

- 8 channels
- GPS via RS-232

LIN Interface

- 7 channels

Ethernet Logging Interface

- Gigabit Ethernet
- 100Base-T1/1000Base-T1

PSI5 Interface

- 4 channels

Analog Interface

- 6 channels
- 100 kHz, 12 bit

USB Host and Device Interface

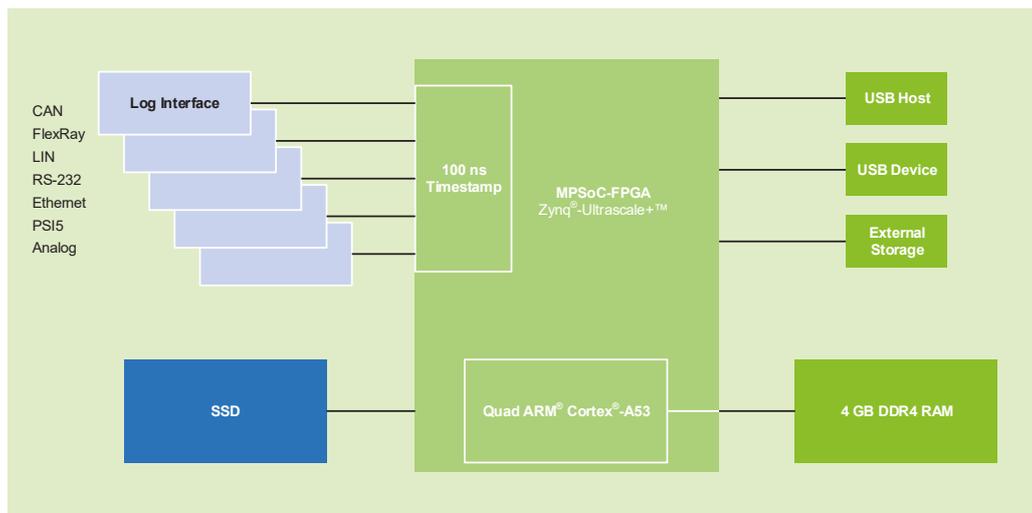
- Alternative to the Ethernet interface

GSM/UMTS Module

- External via USB

GPS

- External via USB



Errors and omissions excepted.



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