

XORAYA N4000+



XORAYA
high performance automotive platforms

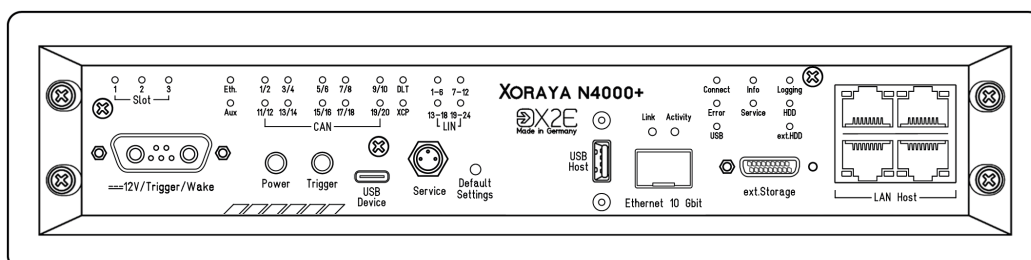
The XORAYA N4000+ is an upgraded version of our automotive data logger XORAYA N4000. By comparison, the device has a more powerful FPGA, is equipped with new interfaces and offers additional support for Digital Input add-on cards. Furthermore, the data logger has been equipped with numerous new features, such as an Ethernet relay for looping through the signal when the logger is switched off or de-energised. In addition, the N4000+ has a Transparency Mode and supports DLT-Inject and PTP Timesync. The cooling concept has also been revised, improving the temperature range by +5 degrees Celsius and reducing the weight at the same time.

Each logger also comes with 20x HS-CAN/CAN FD, 6x 100/1000Base-T1 (switchable), 12x 100Base-T1

2x 1000Base-Tx and 2x Digital Out interfaces. Furthermore, the XORAYA N4000+ has three slots for plug-in cards, which allow a flexible configuration of the data logger. For example, the device may be assembled or retrofitted according to customer requirements. As a result, the data logger can be quickly and efficiently adapted to changing conditions and can develop continuously with your projects.

The following modules are currently supported: LS-CAN, HS-CAN, CAN FD, FlexRay, RS-232, LIN, Gbit-Ethernet, 100/1000Base-T1 (OABR), PSI5, Digital Input and Analog Signals; support of further bus systems is possible.

As with all devices in the XORAYA series, the data is either written to the internal hard disk with a precise, central time stamp with a resolution of 100 ns or transferred to an external computer system via the Ethernet interface. Optionally, the data can also be stored on an External Storage Unit. A built-in supercap unit protects against data loss in the event of voltage fluctuations.



Front view (configuration example)

SPECIFICATIONS

- Central 100 ns timestamp for all interfaces
- Data rate up to 3 Gbit/s
- Dimensions (H x W x D) 70 x 255 x 207 mm
- Temperature range -40 °C to +65 °C
- External operating voltage 6 V to 32 V
- Current consumption standard: max. 7 A (at 12 V) standby: max. 1 mA (at 12 V)
- Automatic sleep mode wake up by CAN, FlexRay, RS-232, LIN, PSI5, wakeline or trigger
- Supercap unit
- Battery-buffered real-time clock
- Ethernet Relay
- Transparency mode
- DLT-Inject support
- PTP Timesync support

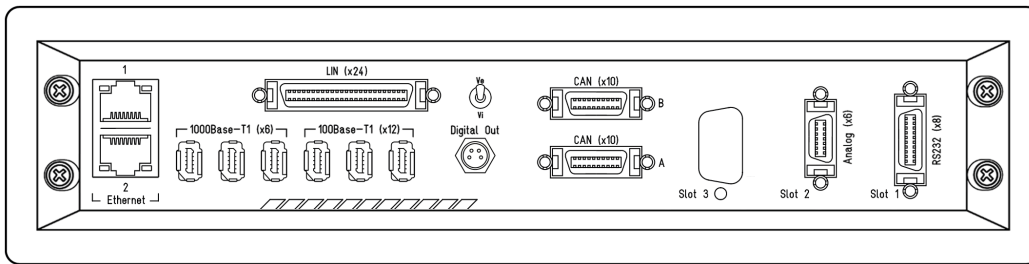
RECORD MODES

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

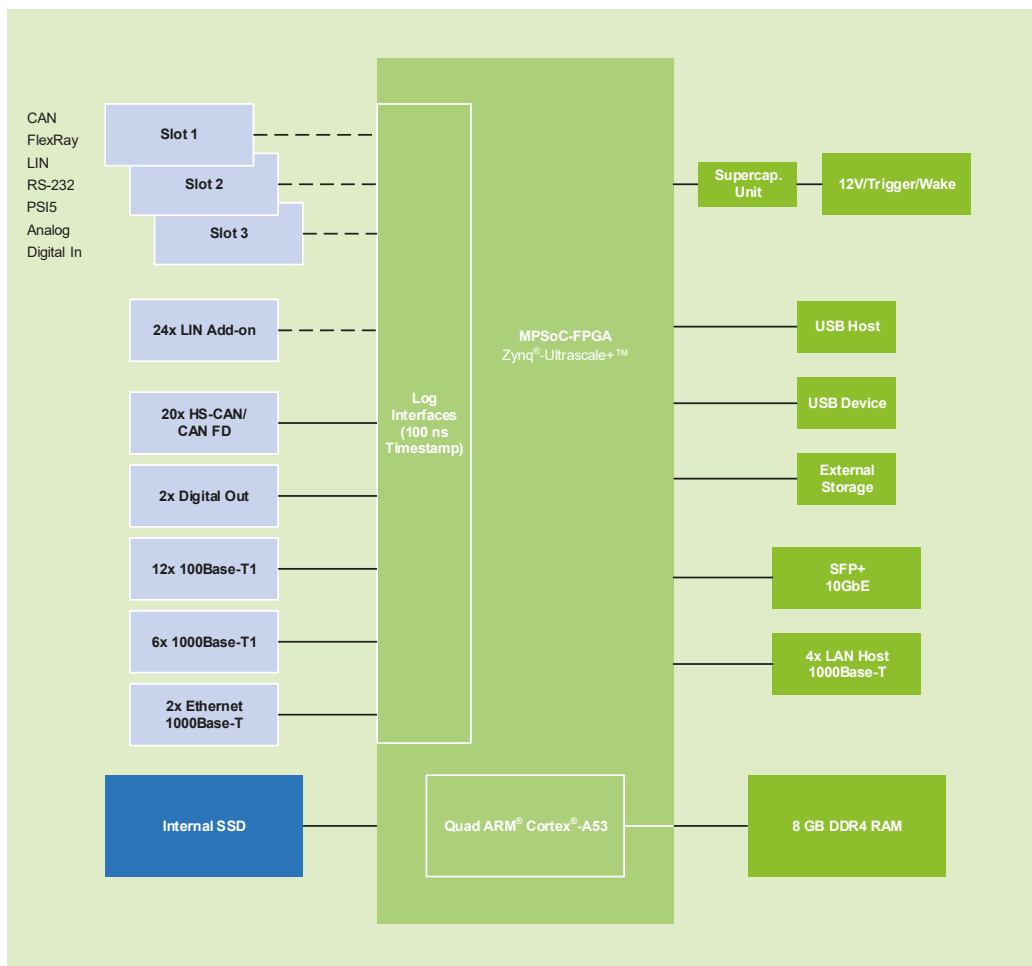
SOFTWARE

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

XORAYA N4000+



Back view (configuration example with additional 6x Analog and 8x RS232 interfaces on slots 1 & 2 and an additional 24x LIN interface on slot 4)



DELIVERY CONTENTS

- XORAYA N4000+
- Power supply cable
- Impact protection
- ESU Cable
- Software
- Manual
- Cable set (optional)

FIXED LOGGING INTERFACES

- 20x HS-CAN/CAN FD
- 6x 100/1000Base-T1 (switchable)
- 12x 100Base-T1
- 2x 1000Base-Tx
- 2x Digital Out

AVAILABLE EXTENSIONS

3x extension slots for the following interface modules:

- 4x HS-CAN/CAN FD
- 8x RS232
- 7x LIN
- 2x FlexRay
- 4x PSI5
- 6x Analog
- 4x Digital Input

1x extension slot for the following interface add-on-cards:

- 24x LIN
- 4x Gbit-Ethernet

1x USB slot for the following extensions:

- 1x External GPS
- 1x WLAN



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Errors and omissions excepted.



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