

DATA LOGGER

XORAYA N4000+

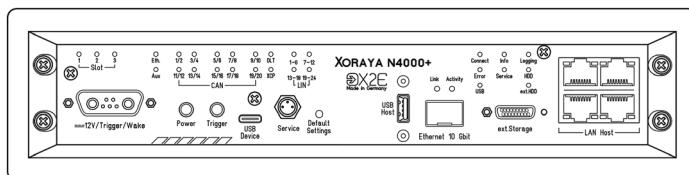
A further development of the XORAYA N4000 with a plus in performance, cooling, interfaces and functionality.



PRODUCT OVERVIEW

Description

The XORAYA N4000+ is a further development of our automotive data logger XORAYA N4000. Compared to the basic version, the device has a more powerful FPGA, is equipped with new interfaces and offers support for a new add-on card (4x digital input).



Product Highlights

- ✓ Upgraded version of the XORAYA N4000 data logger
- ✓ Up to 3 Gbit/s recording speed
- ✓ Built-in supercap unit protects against data loss
- ✓ Ethernet, LIN, CAN, Flex-Ray and many more
- ✓ 480 GB internal & 8 TB external storage

Technical Data

Further information can be found at the back of this data sheet.

Data rate	Storage capacity	Timestamp	Temperature range	Dimensions
Up to 3 Gbit/s	480 GB internal / up to 8 TB external	100 ns	-40 to +65 °C	70 x 255 x 207 mm

Data Logging Interfaces

In addition to permanently integrated interfaces, the data logger has four configurable slots for expanding the device with additional interface cards. In addition, an extension for CCP/XCP as well as a camera interface is available.

Number configurable slots	4
Available Interfaces	HS-CAN, CAN-FD, 100/1000Base-T1, 100Base-T1, 1000Base-Tx, FlexRay, Analog, Digital Input, RS-232, LIN

Configuration	HS-CAN / CAN-FD	100/1000 BASE-T1	100 BASE-T1	1000 BASE-Tx	FlexRay	Analog	Digital Input	RS-232	LIN
C20B18GE-2F2A6D4L24	20	6	12	2	2	6	4	-	24
C20B18GE-2A6R8L24	20	6	12	2	-	6	-	8	24



TECHNICAL DATA

All important technical data of the XORAYA N4000+ at a glance:

Hardware	Processor / RAM	Xilinx Quad ARM Cortex-A53 (ZU9CG) / 4 GB RAM / 256 MB Flash
	Data rate	Up to 3 Gbit/s
	Data storage	480 GB internal storage / up to 8 TB external storage (optional)
	Recording mode	Internal storage / external storage (ESU) / PC via Ethernet
	Timestamp	100 ns
	External operating voltage	6 to 32 V
	Current consumption	Max. 7 A (standard) / max. 1 mA (standby)
	Temperature range	-40 to +65 °C
	Dimensions	70 x 255 x 207 mm
	Weight	2,9 kg
	Other	Thermally sealed active cooling, real-time clock, transparency mode
Software	Operating system	Embedded Linux
	Storage formats	X2E Native, X2E ASCII, Carmen-Journal (V3.0), Wireshark PCAP, MOST OP2, MOST IMG, Vector BLF, Vector ASCII, XAA for GNLog, DLT-Autosar, System Events, NMEA for GPS, Raw for RS-232, CSV for Analog/CCP, CSV for Signals, Video Extractor, MatLab signals, MDF Signals/Buslogging
	Software protocols	CCP/XCP, PLP, XLP
	Wake up by	CAN, FlexRay, RS-232, LIN, PSI5, wakeline or trigger
	Configuration software	XORAYA Suite, XORAYA App and XORAYA SDK for Windows & Linux
	Other	Automatic sleep mode
Interfaces	Pre-installed logging interfaces	20x HS-CAN / CAN-FD, 6x 100/1000BASE-T1, 12x 100BASE-T1, 2x 1000BASE-Tx, 2x Digital Out
	Available slots & interfaces	4 additional Slots (one interface module per slot) Slots 1-3: 7x LIN / 4x CAN-FD / 4x PSI5 / 2x FlexRay / 8x RS-232 / 6x Analog / 4x Digital Input Slot 4: 24x LIN / 4x Gbit-Ethernet
	Non-logging interfaces	1x 12V/trigger/wake, 1x USB Host, 4x LAN Host, 1x Device, 1x SFP+

