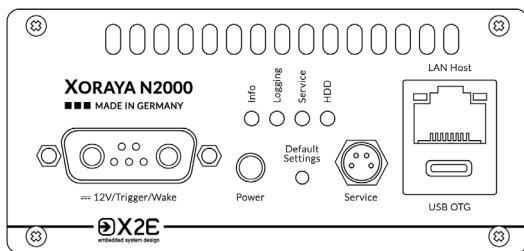# XORAYA N2000

Due to its compact design in combination with good performance and interface coverage, the N2000 can be used flexibly, especially in test environments with a variety of bus systems.

PRODUCT OVERVIEW

Description

The XORAYA N2000 is a compact data logger that offers good performance and a wide range of interfaces while coming in a rather small package. Therefore, the device can be used very flexibly, especially in test environments where a variety of different bus systems have to be logged. The device holds interfaces for CAN, RS-232, FlexRay, LIN, Analog, 100/1000BASE-T1 and Gbit Ethernet which can be written with a data rate of up to 2 Gbit/s.

Product Highlights

✔ Compact data logger with a wide range of interfaces
✔ Up to 2 Gbit/s recording speed
✔ HS-CAN, CAN-FD, RS-232, LIN, Analog, 100/1000BASE-T1 and Gbit Ethernet
✔ Up to 1 TB internal 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 2 Gbit/s	Up to 1 TB	100 ns	-40 to +60 °C	100 x 50 x 200 mm

Data Logging Interfaces

The XORAYA N2000 has, unlike other data loggers of the XORAYA series, a fixed interface configuration.

Available interfaces	HS-CAN, CAN-FD, RS-232, LIN, Analog, 100/1000BASE-T1, Gbit Ethernet

Configuration	HS-CAN / CAN-FD	RS-232	LIN	Analog	100/1000 BASE-T1	Gbit Ethernet
C6B2GE-2A6R4L4	6	4	4	6	2	2

TECHNICAL DATA

All important technical data of the XORAYA N2000 at a glance:

Hardware		
	Processor	Xilinx Dual ARM Cortex-A53 (ZU3CG)
	Flash / RAM	128 MB Flash / 2 GB RAM
	Quick boot buffer	1.5 GByte / 6 sec
	Data rate	Up to 2 Gbit/s
	Data storage	Up to 1 TB internal storage
	Timestamp	100 ns
	External operating voltage	6 to 32 V
	Current consumption	TBD
	Temperature range	-40 to +65 °C
	Dimensions	100 x 50 x 200 mm
	Weight	TBD
	Other	Thermally sealed active cooling, real-time clock, supercap unit

Software		
	Operating system	Embedded Linux
	Storage formats	X2E Native, X2E ASCII, CARMEN-Journal (V3.0), Wireshark PCAP/PCAPNG, MOST OP2, MOST IMG, Vector BLF, Vector ASCII, XAA for GNLog, DLT AUTOSAR, System Events, NMEA for GPS, Raw RS-232, CSV for Analog/CCP, CSV for Signals, Video Extractor, MATLAB Signals, MDF Signals/Buslogging
	Software protocols	CCP/XCP, PLP, XLP
	Recording mode	Internal storage / PC via Ethernet
	Wake up by	CAN, RS-232, LIN, wakeline or trigger
	Configuration software	XORAYA Suite, XORAYA WebGUI and XORAYA SDK for Windows & Linux
	Other	Automatic sleep mode

Interfaces		
	Pre-installed interfaces	6x CAN, 2x 100/1000BASE-T1, 2x Gbit Ethernet, 6x Analog, 4x RS-232, 4x LIN
	Free configurable slots	None
	Non-logging interfaces	1x 12V/Trigger/Wake, 1x USB OTG, 1x LAN host, 1x Service