

## DATA LOGGER

# XORAYA N16000

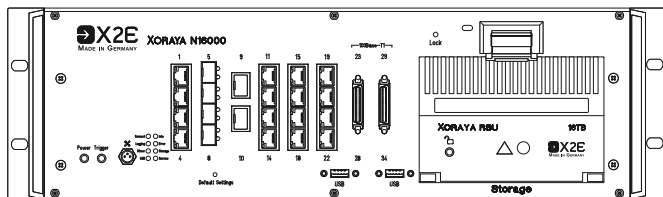
The XORAYA N16000 acts as the central node of a distributed data logger system that networks various data loggers and probes in the vehicle.



## PRODUCT OVERVIEW

### Description

The XORAYA N16000 is the next evolution of the XORAYA N series, now supporting a data rate of up to 15 Gbit/s. It serves as the central hub to connect all data logging devices within the car. Compact and specialized probes, like the cascable XORAYA  $\mu$ T-Z7, can then be placed close to the source and transfer the data via 1GbE/10GbE to the N16000.



### Product Highlights

- ✓ Central hub to connect all logging devices within the car
- ✓ Interconnectable with different probes and loggers
- ✓ Quick-change storage medium with up to 32 TB
- ✓ Fast recording speed with up to 15 Gbit/s

### Technical Data

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

| Data rate       | Storage capacity                   | Timestamp | Temperatures  | Dimensions         |
|-----------------|------------------------------------|-----------|---------------|--------------------|
| Up to 15 Gbit/s | Removable storage with up to 32 TB | 100 ns    | -40 to +60 °C | 133 x 482 x 352 mm |

### Data Logging Interfaces

In addition to the host functionality for other devices, the XORAYA N16000 is also capable to directly log data. The following interfaces are available for this purpose:

| Available interfaces |               | Gbit Ethernet, 100BASE-T1, SFP+ |      |  |
|----------------------|---------------|---------------------------------|------|--|
| Configuration        | Gbit Ethernet | 100BASE-T1                      | SFP+ |  |
| 1                    | 16            | 12                              | 6    |  |
| 2                    | 16            | -                               | 6    |  |



## TECHNICAL DATA

All important technical data of the XORAYA N16000 at a glance:

|            |                            |  |
|------------|----------------------------|--|
| Hardware   | Processor / RAM            | Intel Atom C3858 (12M Cache, 2.0 GHz) / 32, 96 GB RAM          |
|            | Data rate                  | Up to 15 Gbit/s  |
|            | Data storage               | Removable Storage Unit (XORAYA RSU) with up to 32 TB           |
|            | Recording mode             | On Removable Storage Unit (XORAYA RSU) / PC via Ethernet       |
|            | Timestamp                  | 100 ns   |
|            | External operating voltage | 6 to 36 V  |
|            | Current consumption        | Max. 16.6 A (standard) / max. 1 mA (standby)                   |
|            | Temperatures               | -40 to +60 °C  |
|            | Dimensions                 | 133 x 482 x 352 mm   |
|            | Weight                     | 9,2 kg   |
|            | Other                      | -  |
| Software   | Operating system           | Embedded Linux   |
|            | Storage formats            | MF4, Wireshark PCAP/PCAPNG                                     |
|            | Software protocols         | CCP/XCP, PLP, XLP  |
|            | Wake up by                 | Wakeline or trigger  |
|            | Configuration software     | XORAYA Suite, XORAYA WebGUI and XORAYA SDK for Windows & Linux |
|            | Other                      | Automatic sleep mode   |
| Interfaces | Configuration 1            | 16x Gbit Ethernet<br>12x 100BASE-T1<br>6x SFP+                 |
|            | Configuration 2            | 16x Gbit Ethernet<br>6x SFP+                                   |
|            | Non-Logging Interfaces     | 1x 12V/Trigger/Wake, 1x Device, 2x USB 3.0                     |

