GL5450

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- Synchronous data recording to GL5350/GL5370 in a compund
- Controllable and configurable via GL5350/GL5370 in a compund
- Intelligent filter function for reducing the data volume
- Supports the marker function
- Configuration of system relevant/critical connections (critical ports)
- Supports 100/1000Base-T1
- TCP/UDP/DLT Ethernet logging with and without VLAN
- Free master/slave configuration and VLAN support

The Solution for Automotive Ethernet

Driver assistance systems and system for autonomous driving use high resolution radar and camera sensors. These systems generate a lot of information and data which needs to be processed synchronous and in real time, in order to depict a model of reality and make the vehicle react accordingly. The safety of all road users is the top priority. This means that all those systems undergo extensive testing and driving trials during their development. For this reason data loggers are needed that are capable of processing and storing the large amount of data in a safe, precise and efficient manner.

Our GL5450 helps to master this challenge and expands our range of solutions for logging performant automotive Ethernet interfaces.

GL5450 can log data from up to 20 100-Base T1 (10 taps) and up to 6 1000-Base T1 links (3 taps) with a very precise time stamp resolution of 64 ns. The intelligent fi lter function in the GL5450 allows to block unwanted (irrelevant) or unauthorized data (telephone, GPS data ...) completely from the recording. This fulfi ls the requirements of the GDPR also and only the necessary data are recorded.

The GL5450 is controlled and configured via the GL5350/GL5370. The sync line is used to record the data of both devices time-synchronous.

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Technical Specifications

Intelligente Datenlogger

Technical Data	
Ethernet Interfaces	5 x PHY-Board slots with 4 ports: 20 x independent 100Base-T1 Ethernet ports (OPEN Alliance BroadR-Reach) 3 x PHY-Board slots with 2 ports: 6 x independent 1000Base-T1 Ethernet ports (OPEN Alliance BroadR-Reach) 2 x 1Gigabit Ethernet interfaces
AUX	1 AUX+In for connecting GL5350/GL5370 with 1 high speed CAN interface 1 AUX+Out for connecting GLX427/GLX415/GLX504/GL5450
USB	1 Mini USB connector
Time Stamping Resolution	64 ns
Internal Memory	2 GB RAM
External Memory	Slot for 2 x SSDs (replaceable)
Write Rate	Up to 2 Gbit/s
Operating Voltage	+8 V ... +55 V
Current Consumption at 12V:	
• **in operation mode**	With 8 active PHY-Boards and 2 SSDs: 2.2 A With deactivated PHY-Boards: 1 A (More details can be found in the manual in chapter 19.1)
• **in sleep mode**	Typ. 2 MA
Power Consumption bei 12 V	Typ. 33.6 W (with 2 SSDs)
Operating Temperature Range	-40°C ... + 70 °C

Housing	
Material	Side Profile: Al Mg3 Cover: EN AW-6060 (Al Mg Si 0.5) T66 Trim Strip: ABS
Dimensions (LxWxH)	212x 290 x 80
Weight	~ 3500g

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