



Accessories GL Loggers & CANlog

Product Information

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Valid for logger accessories.

This document lists accessories for GL Loggers and CANlog products. The document contains a brief overview of functions and technical data for the specific hardware.

Product information and **technical data** on the GL Loggers and CANlog devices are presented in separate documents for each product.

1 Overview

Vector offers an extensive line-up of accessories for data loggers of the GL families and CANlog, to optimally support you in your logging tasks.

Accessory	GL1000 Family	GL2000 Family	GL3000 Family	GL4000 Family	CANlog3 CANlog4
LINprobe	✓	✓	✓	✓	✓
GLA150	—	—	✓	✓	—
GLA320	—	—	✓	✓	—
CANgps	✓	✓	✓	✓	✓
GPS receiver (serial)	—	✓	—	—	—
CANshunt	✓	✓	✓	✓	✓
LOGview	✓	✓	✓	✓	✓
HostCAM	—	—	✓	✓	—
VoCAN	—	✓	✓	✓	—
CAS1T3L	—	✓	✓	✓	—
CASM2T3L	—	✓	✓	✓	—
Handheld unit E2T2L	—	✓	✓	✓	—
VX1000	—	—	✓	✓	—
SD/SDHC memory cards	✓	✓	—	—	—
CompactFlash memory cards	—	—	✓	✓	—



LOGview, LINprobe and CANgps



Logger accessories: VoCAN, HostCAM and CANshunt

2 LINprobe

LINprobes are available as external adapters for logging additional LIN channels. LINprobe is available in three variants: LINprobe R, LINprobe X and LINprobe G.

Functions	LINprobe R	LINprobe X	LINprobe G
Receiving LIN frames	✓	✓	✓
Sending LIN frames (Master or Slave)	—	✓	✓
CAN/LIN gateway (stand-alone)	—	—	✓

2.1 Functions

- > Receiving functions
 - > Transfer LIN frames to logger via CAN bus; CAN identifier configurable
 - > Time-synchronous saving of LIN data in the logger
- > Sending functions
 - > LINprobe as Master: one schedule and one transmit table configurable
 - > LINprobe as Slave: one transmit table configurable
 - > Data bytes can be overwritten by the logger
- > Gateway functions
 - > Gateway CAN -> LIN and LIN -> CAN
 - > CAN and LIN identifiers configurable; 1:1 routing of data bytes
- > Baud rate configurable for LIN and CAN
- > Logger extendable:
 - > GL1000/GL2000: max. 5 LINprobes (10 additional LIN channels)
 - > GL3000/GL4000: max. 7 LINprobes (14 additional LIN channels)
- > Configuration via the LINprobe configuration program

2.2 Technical Data

Technical Data	Description
LIN channels	2 (per LINprobe)
Supply voltage	8 V ... 40 V
Current consumption	Operating: typ. 80 mA at 12 V Sleep mode: typ. 0,1 mA at 12 V
Temperature range	-40 °C ... +80 °C
Dimensions (W x H x D)	Approx. 85 mm x 70 mm x 25 mm



LINprobe

3 GLA150

The GLA150 enables loggers of the GL3000/GL4000 families to also log MOST150 data time-synchronously to the other vehicle buses. The GLA150 is based on the VN2640 product from Vector – a proven MOST150 interface for CANoe and CANalyzer.

The GLA150 is the first MOST150 logger interface that is listed by the MOST Cooperation as MOST compliant.

3.1 Functions

- > Time-synchronous logging of the following MOST150 data:
 - > Control channel
 - > Asynchronous channel with MOST Data Packets (MDP) as well as MOST Ethernet Packets (MEP)
- > Display of predefined status information via LEDs on the GLA150
- > Configuration via the logger configuration program

3.2 Technical Data

Technical Data	Description
MOST channel	1x MOST150
MOST controller	OS81110 INIC150
MOST connector	Standard MOST 2+0
Operating mode	Spy
LEDs	6 status LEDs
Interface to logger	Ethernet 10/100 Mbit/s
Supply voltage	Supplied by data logger
Temperature range	-40 °C ... +60 °C
Dimensions (W x H x D)	Approx. 125 mm x 105 mm x 38 mm



GLA150

4 GLA320

For the GL3000/GL4000 family this UMTS solution with the USB modem GLA320 is used for wireless transmission of logging data from vehicles independent from their position.

4.1 Functions

- > Automatic transmission of logged data to server; logger initiates data transmission to the server
- > Transmission of selected data (e.g. Memory 1/2/1+2, classification) configurable
- > Automatic update of a new logger configuration and firmware (if necessary)
- > Support of universal SIM cards (SIM card not included in delivery)
- > Configuration via logger configuration program

The GLA320 module is certified for the use in the following regions:

- > in the EU Member States
- > in North America
- > in Japan and Malaysia

4.2 Technical Data

Technical Data	Description
3G support	<ul style="list-style-type: none"> > Triband 850/1900/2100 MHz WCDMA > HSDPA Category 8 (7.2 Mbps downlink) > HSUPA Category 6 (5.76 Mbps uplink)
GSM/GPRS/EDGE support	<ul style="list-style-type: none"> > Quadband 850/900/1800/1900 MHz > EDGE/GRPS MS Class 12 (236 Kbps downlink/uplink)
LED	1 status LED
Interface to logger	Via USB interface
Supply voltage	Supplied by data logger via USB interface (5 V, USB 2.0)
Temperature range	-40 °C ... +60 °C
Dimensions (W x H x D)	Approx. 85 mm x 65 mm x 25 mm



GLA320

5 CANgps / CANgps 5 Hz

With CANgps you can extend your logging data, by logging the positions of your vehicle time-synchronously with the data of the vehicle buses and other measurement data.

5.1 Functions

- > Receive GPS data via high-sensitive GPS receiver
- > Data update:
 - > CANgps: with 1 Hz
 - > CANgps 5 Hz: with 5 Hz
- > Data output:
 - > Over RS232 in NMEA0183 format
 - > On the CAN bus in multiple CAN messages; cycle time and identifiers are configurable
- > Output over CAN:
 - > Cycle time and CAN identifiers configurable
 - > Time-synchronous saving of CAN messages with the data of the vehicle buses in the logger
 - > Generate a DBC database in the configuration program for symbolic evaluation in analysis programs
- > Receiver housing with IP67 suitable for rough duty
- > Configuration via the CANgps configuration program

5.2 Technical Data

Technical Data	Description
GPS receiver	Parallel 12 channels
Receive frequency	1575.42 MHz L1 band
Measurement value updating	1 Hz / 5 Hz
Supply voltage	7 V ... 42 V
Current consumption	Operating: typ. 80 mA at 12 V
Temperature range	-30 °C ... +70 °C
Dimensions (W x H x D)	Approx. 96 mm x 51mm x 18 mm (housing without cable)
Protection class	Receiver housing is IP67



CANgps

6 GPS Receiver for GL2000

With this slim and cost-efficient GPS receiver for GL2000 you can extend your logging data, by logging the positions of your vehicle time-synchronously with the data of the vehicle buses and other measurement data.

6.1 Functions

- > Receive GPS data via high-sensitive GPS receiver
- > Data update with 1 Hz
- > Data output in multiple virtual CAN messages, identifiers are configurable
- > Time-synchronous saving of the CAN messages with the data of the vehicle buses in the logger
- > Generate a DBC database in the configuration program for symbolic evaluation in analysis programs
- > Configuration via logger configuration program

6.2 Technical Data

Technical Data	Description
GPS receiver	48 channels
Measurement value updating	1 Hz
Supply voltage	Via logger via PS2 connector
Current consumption	Operating: typ. 55 mA
Temperature range	-40 °C ... +85 °C
Dimensions (Ø x H)	Approx. 53 mm x 19.2 mm (housing without cable)



GPS receiver for GL2000

7 LOGview

LOGview offers you the option of graphically representing data and displaying information during logging. The logger supplies the LOGview with voltage and switches it off in sleep mode.

7.1 Functions

- > Text output:
 - > Display of information, such as CAN signals
 - > Displays up to 8 lines at 21 characters per line
 - > 2 fonts with zoom
- > Graphic functions:
 - > Drawing of lines, rectangles, blocks (filled rectangles)
 - > Clearing and filling of pages
- > Display pages:
 - > Configuration of 16 independent pages
 - > Flashing function for pages available
- > Pushbuttons:
 - > Toggling between display pages
 - > Can be used as pushbuttons for triggering events
- > Configuration via the logger configuration program

7.2 Technical Data

Technical Data	Description
Display	128 x 64 pixels
Window size	Approx. 59 mm x 38 mm
Pushbuttons	3 (programmable)
Supply voltage	7 V ... 40 V (supplied by logger)
Temperature range	-30 °C ... +70 °C
Dimensions (W x H x D)	Approx. 89 mm x 66 mm x 38 mm



LOGview

8 CANshunt

With CANshunt you can also log the quiescent current of the vehicle battery as well as battery voltage.

8.1 Functions

- > Shunt for time-synchronous logging of the following data on CAN:
 - > Battery voltage
 - > Quiescent current
 - > Charge meter for discharging or charging
 - > Energy meter for discharging or charging
- > Voltage measurement with compensation of the thermal voltage
- > Log the data in CAN messages: Baud rate, identifier and cycle time are configurable
- > Generate a DBC database in the configuration program for symbolic evaluation in analysis programs
- > Rugged housing with IP65 makes it suitable for rough duty
- > Configuration via the CANshunt configuration program, CANshunt adapter required

8.2 Technical Data

Technical Data	Description
Current measurement range	-750 A ... +750 A
Resolution	1 mA in 70 A range 2 mA in 150 A range 10 mA in 750 A range
Precision of current measurement	0.5 %
Voltage measurement range	6 V ... 20 V
Supply voltage	4 V ... 36 V
Temperature range	-40 °C ... +85 °C
Dimensions (W x H x D)	Approx. 94 mm x 39 mm x 49 mm
Degree of protection	IP65



CANshunt

9 VoCAN

For the GL2000/GL3000/GL4000 families you can use the VoCAN to comment on specific events during logging in an audio format.

9.1 Functions

- > Speech recording via directional microphone in WAV format with date and clock time
- > Speech output from WAV files saved in the logger
- > Output of a signal tone
- > Indicate status information by 4 user-programmable LEDs
- > Activate pushbuttons to trigger an event, e.g. to start speech recording, to initiate a trigger
- > Configuration via the logger configuration program

9.2 Technical Data

Technical Data	Description
LEDs	4
Pushbuttons	1
Supply voltage	Supplied by data logger (AUX socket)
Temperature range	-20 °C ... +70 °C
Dimensions (W x H x D)	Approx. 60 mm x 140 mm x 33 mm



VoCAN

10 CAS1T3L / CASM2T3L

For the GL2000/GL3000/GL4000 families you can use the compact remote control CAS1T3L or CASM2T3L to display states and to trigger events on keystroke. With the CASM2T3L events can be commented additionally. The comments are stored in an audio format during logging. The round devices are easily installed in the cup holder.

10.1 Functions

- > Indicate status information by 3 user-programmable LEDs
- > Output of a signal tone
- > Activate red pushbuttons to trigger an additional event
- > Configuration via the logger configuration program
- > Additionally for CASM2T3L
 - > Speech recording in WAV format with date and clock time
 - > Activate black pushbuttons to start speech recording

10.2 Technical Data

Technical Data	Description
LEDs	3
Pushbuttons	CAS1T3L: 1 CASM2T3L: 2
Supply voltage	Supplied by data logger (AUX socket)
Temperature range	-30 °C ... +60 °C
Dimensions (Ø x H)	Approx. 63 mm x 39 mm



CASM2T3L and CAS1T3L

11 HostCAM

This compact, digital network camera gives you the ability to supplement your logged data with images for GL3000/GL4000 loggers. The environment during a test drive, or vehicle components are thus documented graphically.

11.1 Functions

- > Record images or image sequences with date and clock time in file name
- > JPEG image format with configurable compression
- > Image rate and shutter speed configurable
- > Transfer of images from the ring buffer to the logger, periodically or on event
- > Configuration via the logger configuration program

11.2 Technical Data

Technical Data	Description
Image sensor	1/4" progressive scan RGV CMOS
Image rate	25 images/s
Resolution	1280 x 720 to 320 x 180 Pixels
Shutter speed	1/6 s ... 1/25400 s
Interface to logger	Ethernet 10/100 Mbit/s
Supply voltage	Power over Ethernet IEEE 802.3af class 2 (max. 6.49 W) or via PWR connector (8 V...28 V, 4.7 W)
Temperature range	-20 °C ... +50 °C
Dimensions (W x H x D)	Camera unit: Ø 20 mm Main device: approx. 76 mm x 31 mm x 104 mm
Protection class	Camera unit: IP66



HostCAM

12 VX1000 Measurement Hardware

With the loggers of the GL3000/GL4000 families and the VX measurement hardware from Vector you can log internal signals of the ECU (variables, parameters) in parallel to the bus communication. The signals are measured by a POD (plug-on device) that uses microcontroller-specific data trace interfaces or debug interfaces of the ECU. The logger is connected to the VX module via Ethernet (XCP on Ethernet protocol).

12.1 Functions

- > Logging of ECU internal signals with short measurement raster ($< 50 \mu\text{s}$)
- > Data transmission in DAQ mode
- > Configuration of the VX module with the VXconfig tool
- > Configuration of the signal lists with the logger configuration program

12.2 Technical Data

Technical Data	Description
Interface to logger	Ethernet 100 Mbit/s
Supply voltage	5,0V ... 50 V (operating) 7,5V ... 50 V (start-up)
Current consumption	Operating: typ. 350 mA at 12 V Standby mode: typ. 70 mA at 12 V
Temperature range	-40 °C ... +85 °C
Dimensions (W x H x D)	115 mm x 32 mm x 106 mmca. 76 mm x 31 mm x 104 mm

Depending on the available interface of the microcontroller the serial POD or the HSSL POD is used.

You can find further information in the **VX1000** data sheet or in the **VX1000 System** manual.



VX1060

13 Piggyback Boards for CAN

The following transceivers for the loggers are available on piggyback boards for the various CAN buses:

Technical Data	Transceiver Type	Wakable	GL1000 Family	GL2000 Family	GL3000 Family	GL4000 Family
High-Speed	TJA1043 ¹	✓	✓	✓	✓	✓
	TJA1043mag ¹ (electrically decoupled)	✓	—	✓	✓	✓
	TJA1042 ²	—	✓	✓	✓	✓
	TJA1050	—	✓	✓	✓	✓
Low-Speed	TJA1055 ³	✓	✓	✓	✓	✓
	TJA1055mag ³ (electrically decoupled)	✓	—	✓	✓	✓
Single Wire	TLE6255G	—	✓	✓	✓	✓
Truck & Trailer	WABCO	—	✓	✓	✓	✓

¹ TJA1043 as successor of TJA1041

² TJA1042 as successor of 82C251

³ TJA1055 as successor of TJA1054

14 Memory Cards

Vector offers industrial grade memory cards for the GL loggers with different memory capacities.

For information on available memory capacities contact sales@vector.com.

Accessory	GL1000 Family	GL2000 Family	GL3000 Family	GL4000 Family
SD/SDHC memory cards	✓	✓	—	—
CompactFlash memory cards	—	—	✓	✓

15 CCP/XCP License

The CCP/XCP license lets you read out and record measurement data directly from ECUs in the DAQ and polling measurement mode.

- > Record internal ECU data by:
 - > CAN: CCP 2.1, XCP on CAN 1.x
 - > FlexRay: XCP on FlexRay (with FIBEX 2.0/3.0/3.1)
- > Periodic time-synchronous measurement via DAQ lists
- > Individual measurement of data via polling mode (for XCP on FlexRay not available)
- > Direct assignment of A2L files for CAN and FlexRay
- > Signal selection and parameterization of the CCP/XCP measurement directly in the configuration tool
- > Supports Seed & Key for protected ECUs, generation of Seed & Key algorithms with CANape V 8.0 and higher



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