

# Feature Matrix GL Logger Families

The loggers of the GL families are the optimal devices for logging CAN/CAN FD, LIN, FlexRay and MOST150 data communication. Additionally, the loggers support the logging of analog measurement data like battery voltage as well as internal ECU parameters via diagnostics and CCP/XCP during a test drive. Due to its low current consumption in sleep mode, the loggers are excellent for in-vehicle tests and use in test fleets.

Features	GL1000 GL1010	GL2000 GL2010 GL2400	GL3000 GL3100 GL3200	GL4000 GL4200	GL5350 GL5370
<b>Logging Networks</b>					
CAN channels	2	4	9	9	GL5350: 20 GL5370: 24
thereof CAN FD channels	-	GL2400: 4	-	-	GL5350: 4 GL5370: 12
LIN channels	2...12 <sup>1</sup>	2...12 <sup>1</sup>	2...16 <sup>1</sup>	2...16 <sup>1</sup>	6...16 <sup>1</sup>
FlexRay channels	-	-	-	2 <sup>2</sup>	2 <sup>2</sup>
MOST150 channels <sup>3</sup>	-	-	1	1	1
RS232 interface	1	1	2	2	8
<b>Data Storage</b>					
SD/SDHC card <sup>3</sup>	✓	✓	-	-	-
Compact Flash card <sup>3</sup>	-	-	GL3000 GL3100	GL4000	-
Solid State Disk <sup>3</sup>	-	-	GL3200	GL4200	✓
USB memory medium <sup>3</sup>	-	-	GL3000 GL3100	GL4000	-
<b>Data Transfer</b>					
USB 2.0	✓	✓	✓	✓	✓
Memory card in card reader	✓	✓	GL3000 GL3100	GL4000	-
Solid State Disk via eSATAp	-	-	GL3200	GL4200	✓
Wi-Fi <sup>3</sup>	-	-	✓	✓	✓
Cellular radio <sup>3</sup>	-	✓	✓	✓	✓
Ethernet	-	-	✓	✓	✓
Cloud	-	-	✓	✓	✓
<b>Inputs, Outputs</b>					
Digital inputs	2 <sup>4</sup>	4 <sup>4</sup>	8	8	4
Digital outputs	2 <sup>4</sup>	4 <sup>4</sup>	8	8	4
Analog inputs	4	4	6	6	6
Analog extension board <sup>3</sup>	-	-	8	8	8
<b>Keypad, Display</b>					
LEDs (freely programmable)	4	4	5	5	5
Display	-	-	✓ <sup>7</sup>	✓	✓
Event buttons	-	-	4 <sup>7</sup>	4	4
Buttons on remote control	-	2	2	2	2
<b>Additional Hardware Features</b>					
Real-time clock with battery	✓	✓	✓	✓	✓

Features	GL1000 GL1010	GL2000 GL2010 GL2400	GL3000 GL3100 GL3200	GL4000 GL4200	GL5350 GL5370
Beep	✓	✓	✓	✓	✓
IP65 variant	GL1010	GL2010	-	-	-
<b>Sleep/Wake-Up Features<sup>5</sup></b>					
Sleep mode	✓	✓	✓	✓	✓
Standby mode with fast wake-up	-	✓ <sup>8</sup>	✓	✓	- <sup>9</sup>
Wake-up over CAN, LIN, wake line and clock	✓	✓	✓	✓	✓
<b>Logging Functions</b>					
Message oriented logging	✓	✓	✓	✓	✓
Signal oriented logging	✓	✓	✓	✓	✓
Permanent logging	✓	✓	✓	✓	✓
Trigger on messages, signals	✓	✓	✓	✓	✓
Trigger with pre-/post-trigger time	✓	✓	✓	✓	✓
Filter for data reduction	✓	✓	✓	✓	✓
Logging digital inputs and outputs	✓	✓	✓	✓	✓
Logging analog inputs	✓	✓	✓	✓	✓
Transmit CAN messages	✓	✓	✓	✓	✓
Timer, Timeout	✓	✓	✓	✓	✓
CCP/XCP on CAN with Seed & Key <sup>3,6</sup>	✓	✓	✓	✓	✓
XCP on FlexRay with Seed & Key <sup>3,6</sup>	-	-	-	✓	✓
XCP on Ethernet with VX modules <sup>3</sup> , CSM modules <sup>3</sup>	-	-	✓	✓	✓
Diagnostics over UDS, KWP2000 on CAN, OBD II	✓	✓	✓	✓	✓
Online classification	-	✓	✓	✓	✓
Rainflow analysis	-	✓	✓	✓	✓
Drive recorder function	-	✓	✓	✓	✓
Monitoring Interface	-	✓	✓	✓	✓
<b>Data Analysis</b>					
Data formats BLF, ASC, MDF, MAT, HDF, ADTF, TXT, IMG	✓	✓	✓	✓	✓
Offline analysis with CANoe/CANalyzer	✓	✓	✓	✓	✓
Offline analysis with CANape/vSignalizer	✓	✓	✓	✓	✓
MS Excel	✓	✓	✓	✓	✓
<b>Extensions</b>					
CANgps <sup>3</sup> – log GPS position	✓	✓	✓	✓	✓
LINprobe <sup>3</sup> – additional LIN channels	✓	✓	✓	✓	✓
LOGview <sup>3</sup> – display for information	✓	✓	✓	✓	✓
HostCAM <sup>3</sup> – digital camera	-	-	✓	✓	✓
CAS1T3L <sup>3</sup> – remote control	-	✓	✓	✓	✓
CASM2T3L <sup>3</sup> – speech recording	-	✓	✓	✓	✓
VoCAN <sup>3</sup> – speech recording and speech output	-	✓	✓	✓	✓
VX modules – fast ECU measurement	-	-	✓	✓	✓
Wi-Fi / Cellular radio – wireless data transfer	-/-	-/✓	✓/✓	✓/✓	✓/✓

Legend: ✓ = Available      - = Unavailable

<sup>1</sup> LINprobe required expanding to 12 resp. 16 LIN channels

<sup>2</sup> 2 FlexRay channels equal to 1 cluster

<sup>3</sup> Additional product, not included in standard delivery

<sup>4</sup> Alternatively as digital input or output

<sup>5</sup> Wake-up capable CAN transceiver required

<sup>6</sup> CANape required for Seed & Key

<sup>7</sup> Not for GL3000

<sup>8</sup> GL2400: In planning

<sup>9</sup> In planning