

LG-L6xxx-000

Datalogger with up-to 208 channels

Features

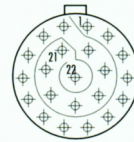
- Up-to 208 recording channels
- Up-to 2 completely independent CAN lines
- No limitation on CAN identifiers
- CAN Bridge: Transferring of CAN data from one CAN bus to another
- 4 Communication Ports: Two High speed serial ports, USB and Ethernet 10/100 BaseT
- 10/100 MBit full communication and download through TCP/IP
- WLAN connection module available
- Individual sampling rates for each channel
- Sampling rates from 6,25Hz up to 3200Hz (multiplier of 2)
- Additional 1 MByte RAM for burst logging
- 4 wheel speed inputs
- 1 RPM-, 1 Lap trigger-, 1 Section trigger input
- 2 additional general purpose combined D&A In/Output
- 2 x 8 Analog channels with real low noise 16Bit ADC
- switchable Pull-up resistors for 8 channels
- selectable Input range 0-5V or 0-20V for 8 channels
- 4 x open collector output



Connector layout

Connector type

Pin	CON1 AS212 35PN red	CON2 AS212 35PA yellow	CON3 AS212 35PA yellow
1	Vext (8-20V)	VBAT SWOut	VBAT SWOut
2	BGND	BGND	BGND
3	ON/OFF	+12V	+12V
4	DVCC	+5V ref	+5V ref
5	GND	GND	GND
6	LED	AGND	AGND
7	CAN H1	CAN H1	CAN HI 1
8	CAN L1	CAN L1	CAN LO 1
9	CAN H2	AGND	AGND
10	CAN L2	AGND	AGND
11	RXD1	DIN1 (e.g. Speed1 VFr)	DIN5 (e.g. Speed1 VFI)
12	TXD1	DIN2 (e.g. Speed2 VRr)	DIN6 (e.g. Speed2 VRI)
13	RXD2	DIN3 Hybrid / Dout1	DIN7 Hybrid / Dout3
14	TXD2	DIN4 Hybrid / Dout2	DIN8 Hybrid / Dout4
15	ETH T+	AIN1 4k7	AIN9 4k7
16	ETH T-	AIN2 4k7	AIN10 4k7
17	ETH R+	AIN3 4k7	AIN11 4k7
18	ETH R-	AIN4 4k7	AIN12 4k7
19	USB +	AIN5 5/20	AIN13 5/20
20	USB -	AIN6 5/20	AIN14 5/20
21	USB Power	AIN7 5/20	AIN15 5/20
22	USB GND	AIN8 5/20	AIN16 5/20



22-pin / male (connector front side)

CON1: AS212-35PN (red)
 CON2&3: AS212-35PA (yellow)

Remark

For this logger there is a loom available !

➤ WL-L6Loom-000

refer 2D product catalog section "looms and cables"

LG-L6xxx-000

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Logger 6 type differences		LG-L6Full	LG-L6Std_800	LG-L6Standard	LG-L6light
Logging					
Memory.....	[MBytes]	1024	128 up-to 1024	128 up-to 1024	64
Logging capacity.....	[KByte/sec]	350	350	350	250
Sampling frequency.....	[Hz/CH]	3200	3200	3200	800
Max. storage rate.....	[Hz]	3200	800	400	400
CAN Channels.....		176	88	88	48
Max. lap length.....		No limit	No limit	No limit	No limit
Analogue Input channels					
Single ended inputs (AIN1..16).....	[CH]	16	16	16	16
Input voltage range (switchable)	[V]	8 x 0..5	8 x 0..5	8 x 0..5	8 x 0..5
or.....	[V]	8 x 0..20	8 x 0..20	8 x 0..20	8 x 0..20
Input filters (12dB)		Yes	Yes	Yes	Yes
anti-aliasing.....	[Hz]	200	200	200	200
Resolution.....	[Bit]	16	16	16	12
Precision.....	[mV]	50	50	50	100
Over voltage protection.....	[sec]	for 2	for 2	for 2	for 2
Digital Input channels					
Input capture (IC1..4).....	[CH]	8	8	8	max. 5
Threshold.....	[V]	8 x variable	8 x variable	8 x variable	5 x variable
max. frequency.....	[kHz]	10	10	10	5
Max. input voltage.....	[V]	+/-50	+/-50	+/-50	+/-50
Representation.....	[nsec/LSB]	50	50	50	150
Pull-up to 12V (switchable).....	[KΩ]	10	10	10	10
Counters.....		8	8	8	max. 5
Source.....		D1..D8	D1..D8	D1..D8	5 out of 8
Representation.....	[Bit]	32	32	32	32
Output channels					
Type: open collector.....		4	4	4	2
Trigger.....		per channel	per channel	per channel	per channel
Sink current (per channel).....	[A]	1	1	1	1
Communications					
CAN-lines.....		2	1	1	1
Speed.....	[KBaud]	125-1000	125-1000	125-1000	125-1000
Terminations (software switchable)	[Ω]	off / 120	off / 120	off / 120	off / 120
Identifiers standard.....	[Bit]	11 / 29	11	11	11
Ethernet.....		1	1	1	1
Physical.....	BaseT	10/100	10/100	10/100	N/A
Protocol.....		TCP/IP	TCP/IP	TCP/IP	N/A
Serial input / output.....		2	2	2	1
USB 1.0 / 2.0 compatible.....					N/A
Electrical characteristics					
Voltage reference.....	[V]	5	5	5	5
Max combined current.....	[mA]	500	500	500	500
Power supply.....	[V dc]	9..18	9..18	9..18	9..18
Current consumption@12V.....	[mA]	typ. 200	typ. 200	typ. 200	typ. 200
Protection		load dump	load dump	load dump	load dump
Mechanical characteristics					
Housing material.....		carbon	aluminium	aluminium	aluminium
Weight.....	[g]	205	270	270	270
Dimensions.....	[mm]	100 x 80 x 26	100 x 80 x 26	100 x 80 x 26	100 x 80 x 26
Environmental					
Operating temperature.....	[°C]	-10..+75°C	-10..+75°C	-10..+75°C	-10..+75°C
Shock	[G] / [msec]	40 / 10	40 / 10	40 / 10	40 / 10
Vibration tested at.....	[G] / [Hz]	12 / 1000	12 / 1000	12 / 1000	12 / 1000
Ordering information					
Art.No.:		LG-L6Full-000	LG-L6Standard_800-000	LG-L6Standard-000	LG-L6light-000

Available options (refer third page)

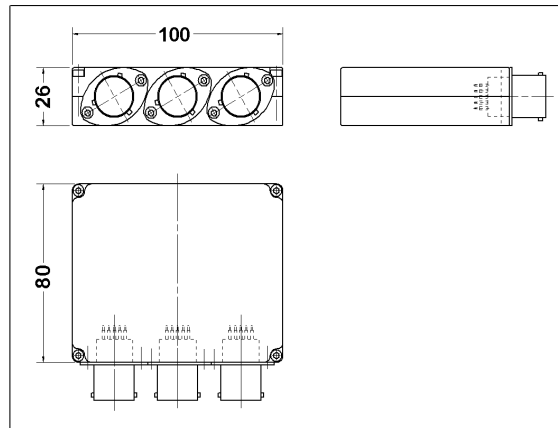
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LG-L6xxx-000

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Dimensions



Possible options	LG-L6Standard-000 / LG-L6Standard 800-000	LG-L6light-000
a) > Logger-6 29-bit CAN ID option.....	OP-L6_29bit-000	OP-L6_29bit-000
b) > Logger-6 160 CAN channels option....	OP-L6_160CAN-000	N/A
c) > Logger-6 additional CAN-line option...	OP-L6_ADDCAN-000	N/A
d) > Logger-6 memory option 1 GB.....	OP-L6_1GB-000	N/A
e) > TCP option for LG-L6light.....	N/A	OP-L6_Light_TCP-000

LG-L6Full-000 (=full carbon fiber housing)



More than 25 percent less weight !

USB drivers reference



Find latest information in the manual:

AC-DOC_USBdriverInstallation_e-000