LG-CANStick2C_V4W-000

Industrial USB Stick WiFi CAN Logger



Key features

- Built-in Wi-Fi module for wireless 2D Winlt communication and for RealDash interface
- Sticklogging features
 - Stores data directly on 512 GB USB 3.0 Stick with > 600 kByte/s
 - Supports USB Stick hot swap 0
 - Optional CAN-Streamlogging: Create measurements with "unlimited" number of OFFLINE CAN channels & Streamreplay (OPT-008)

CAN-bus features

- 2 CAN lines up to 2 Mbit/s each
- 32 ONLINE CAN channels can be recorded and send to other CAN-devices with sampling rate up to 200 Hz each (online CAN-DB/DBC-file decoding)
 - Optional up to 128 ONLINE CAN channels (OPT-001)
 - Optional CAN channels sampling rate of up to 2000 Hz (OPT-002 & OPT-003)
- Optional with CAN/CAN-FD: XCP/CCP option with "Listen only" Mode (OPT-005)
- 4 analog input channels up to 1000 Hz sampling rate each
 - 1 Input can be switched to a Hybrid Input
 - Optional increased sampling rate of analog inputs (OPT-010)
- 1 frequency input channels (up to 50kHz)
- 24 Math (CALC) channels for online calculation
- GPS/GNSS data via CAN and Serial (RTK ready)
- Optional with built-in 6DoF-IMU (OPT-009)

Available options (all options can be combined freely!)

OPT-000	Serial GPS/GNSS mouse connectivity
OPT-001	Additional 32 ONLINE CAN channels (max. total 128 CAN channel)
OPT-002	Increased max. sampling rate of 1000 Hz (for all channels)
OPT-003	Increased max. sampling rate of 2000 Hz (for all channels)
OPT-004	Full ONLINE channel Routing/Interface
OPT-005	CAN - CCP/XCP Protocol (Online Decoding)
OPT-008	CAN-Streamlogging : Create measurements with "unlimited" number of OFFLINE CAN channels & Streamreplay
OPT-009-A	Integrated 6 DoF IMU with individual range selection for Acc (±2/4/8/16 G) and Gyros (±250/500/1000/2000 °/s)
OPT-009-B	Integrated 6 DoF IMU with individual range selection for Acc (±4/8/16/30 G) and Gyros (±500/1000/2000/4000 °/s)
OPT-010	Increased sampling rate of analog channels to 16000 Hz each
OPT-012	Waterproof USB Stick incl. Connectors/connector cables

Technical specifications

CAN characteristics		
ONLINE CAN channels		32 (up to 128)
CAN Lines		Ź
CAN powered		ves
Baud rate	kBd	125 / 250 / 500 / 1000 / 2000
Sampling rate CAN channels	Hz	up to 200
. 0		
optional	Hz	up to 1000
Storage characteristics	USB	supports 2.0/3.0
Max USB Stick size	GB	512
format		xFAT32
Max block size	GB	2
Wax Block Size	OB	_
Analog input channels		
Single ended inputs		4
Analog Input Filter (6dB)	Hz	4400
Resolution	bit	16
Input voltage range	V	0 to 5
Internal sampling rate analog	Hz	32000
channels		
recording rate analog inputs	Hz	up to 16000
Frequency input channels		
max. frequency at Freq 1	kHz	<50
max. frequency Hybrid	kHz	<4
3 Axis acceleration (optional)		
Range switchable with 3 axes	G	±2/±4/±8/±16/±30
Error of linearity	FS	<1 %
· ·	Hz	
Lowpass filter (programmable)		5 to 250
Sampling rate	Hz	1000
3 Axis yaw-rate (optional)		
O and a little deci	0./	±250/±500/±1000/
Sensitivity	°/s	±2000/±4000
Error for linearity	FS	<1%
Lowpass filter (programmable)	Hz	5 to 250
. " "		
Sampling rate	Hz	1000

Mechanical characteristics Housing Material Dimensions Weight (cable included) CAN 1 Interface CAN 2 Interface Cable USB Stick Length Analog/Frequency Input Serial GPS Input	Aluminum mm 70 x 50 x 15 g 115 Binder 712 5PF Binder 712 5PM USB Type A, socket mm 200 Binder 712, 8PF Binder 712, 4PF
Electrical characteristics Supply voltage Current consumption @12V	V 6 to 18 mA 120
Operation mode status indicator LED green/red blinking	
Environmental data	
Protection class Ambient operating range Humidity	°C -20 to +75 % 5 to 95
Vibration resistance Shock During time period of Vibration tested at Measured with	G 40 ms 10 G 12 Hz 1000

Ordering information LG-CANStick2C_V4-000

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USB Stick Compatibility

Proper functioning of the logger is only guaranteed with USB Sticks sold by 2D!

Connector layout

Connector type

CAN 1, Binder 712, 5PF		
Pin	Name	Description
1	CAN 1 H	CAN 1 high
2	CAN 1 L	CAN 1 low
3	GND	Ground
4	n.c.	Not connected
5	Vext	Power (6 to18V)



CAN	2 Bin	dor 71	2 5DM

	0/11 2, Billian 1 12, 01 III		
I	Pin	Name	Description
I	1	CAN 2 H	CAN 2 high
I	2	CAN 2 L	CAN 2 low
I	3	GND	Ground
I	4	KL15	KL15/switched power
I	5	Vext	Power (6 to18V)



GPS, Binder 712, 4PF

Pin	Name	Description
1	TxD	Transmit Data
2	RxD	Receive Data
3	GND	Ground
4	VCC	GPS Power Supply +5V



Analog / Frequency input, Binder 712, 8PF

Pin	Name	Description
1	VCC	+5V Sensor supply
2	GND	Ground
3	FREQ1	Frequency input 1
4	+12V	+12V Sensor supply
5	AIN1	Analog input 1
6	AIN2	Analog input 2
7	AIN3	Analog input 3 / Hybrid Input
8	AIN4	Analog input 4



USB, Type A, socket

Pin	Name	Description	Color
1	VCC	USB Power supply +5V	red
2	Data -	Data line -	white
3	Data +	Data line +	green
4	GND	Ground	black





Connector and cable length can be modified on customer request!