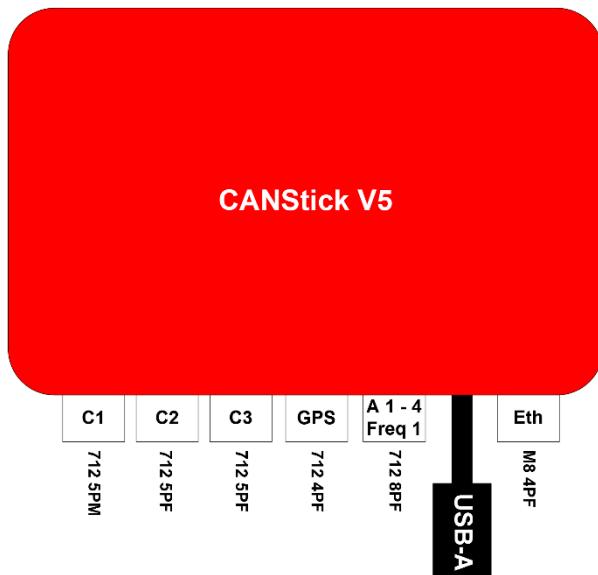


## LG-CANStick\_3C\_V5W-000

## USB Stick Logger



### Key Features

- Integrated WiFi interface for wireless WinInt and 2D virtual dash connectivity
- Sticklogging features
  - Stores data directly on up to 1000 GB USB 3.0 Stick with > 600 kByte/s
  - Supports USB Stick hot swap without data loss
  - Optional CAN-Streamlogging: Create measurements with "unlimited" number of OFFLINE CAN channels & Stream-Replay (OPT-008)
- CAN-bus features
  - 3 CAN lines up to 2 Mbit/s each (one line can be used for CAN-FD\*)
  - 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 analogue input channels – up to 1000 Hz sampling rate each
  - 1 Input can be switched to a Hybrid Input to serve as a frequency input
  - Optional increased sampling rate of analogue inputs (OPT-010)
- 2 frequency input channels (up to 50kHz)
- 32 / 64 Math (CALC) channels for online calculation with > 8 MFlops
- GPS/GNSS data via CAN and Serial (RTK ready)
- Optional Ethernet connection (OPT-011)

## Available options (all options can be combined freely!)

OPT-000	<u>Serial</u> GPS/GNSS mouse connectivity
OPT-001	<u>Additional</u> 32 ONLINE CAN channels (max. <u>total</u> 128 CAN channel)
OPT-002	Increased max. sampling rate of <b>1000 Hz</b> (for <b>all</b> channels)
OPT-003	Increased max. sampling rate of <b>2000 Hz</b> (for <b>all</b> channels)
OPT-004	Full ONLINE channel Routing/Interface
OPT-005	CAN/CAN-FD*/Ethernet - CCP/XCP Protocol (Online Decoding)
OPT-008	<b>CAN-Streamlogging:</b> Create measurements with "unlimited" number of OFFLINE CAN channels & Streamreplay
OPT-010	Increased sampling rate of <b>analogue</b> channels to 16000 Hz each
OPT-011	Ethernet connection
OPT-012	Waterproof USB Stick incl. Connectors/connector cables

## Technical specifications

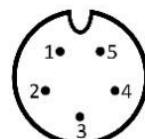
<b>CAN characteristics</b>		<b>Mechanical characteristics</b>	
ONLINE CAN channels	32 (up to 128)	Housing Material	Aluminum
CAN Lines	3 (up to 4) with 2x FD*	Dimensions	mm 100x 70x 16
<b>Storage characteristics</b>		<b>Electrical characteristics</b>	
Max USB Stick size format	USB GB 1000	Supply voltage	V 6 to 18
Max block size	GB xFAT32 2	Current consumption @12V	mA 95
<b>Analogue input channels</b>		<b>Operation mode status indicator</b>	
Single ended inputs	4	LED green/red blinking	
Analogue Input Filter (6dB)	Hz 4400		
Resolution	bit 16		
Input voltage range	V 0 to 5		
Internal sampling rate analogue channels	Hz 32000		
recording rate analogue input channels	Hz Up to 16000		
<b>Frequency input channels</b>		<b>Environmental data</b>	
Inputs max. frequency	kHz 1 <50	Protection class	IP67
		Ambient operating range	°C -20 to +75
		Humidity	% 5 to 95
<b>Vibration resistance</b>		<b>Ordering information</b>	
Shock	G 40	LG-CANStick_3C_V5-000	
During time period of Vibration tested at	ms 10		
	G 12		
Measured with	Hz 1000		

## Connector layout

## Connector type

### CAN 1, Binder 712, 5PM

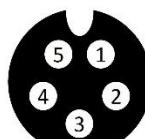
Pin	Name	Description
1	CAN 1/3 H	CAN 1 high
2	CAN 1/3 L	CAN 1 low
3	GND	Ground
4	n.c.	tbd
5	Vext	Power (6 to 18V)



front view

### CAN 2+3, Binder 712, 5PF

Pin	Name	Description
1	CAN 2 H	CAN 2 high
2	CAN 2 L	CAN 2 low
3	GND	Ground
4	n.c.	tbd
5	Vext	Power (6 to 18V)

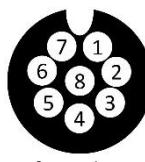


front view

### Analogue/Frequency inputs, Binder 712, 8PF

#### Ain 1-4 + Freq 1

Pin	Name	Description
1	VCC	+5V Sensor supply (150mA max)
2	AGND	Analogue ground
3	FREQ 1	Frequency input 1
4	+12V	+12V Sensor supply (600mA max)
5	AIN 1	Analogue input 1
6	AIN 2	Analogue input 2
7	AIN 3	Analogue input 3
8	AIN 4	Analogue input 4



front view

### Ethernet, Harting M8 D coded, 4PF

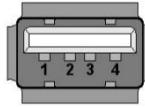
Pin	Name	Description
1	ETH RX+	
2	ETH TX-	
3	ETH RX-	
4	ETH TX+	



front view

### 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



front view



Connector and cable length can be modified on customer request!

## Accessories

- 4x Analogue, 1x Frequency Breakout Box  
WB-2miniA\_D-000

