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LG-CANStick2C_V4-000

Industrial USB Stick CAN Logger



Key Features

- > 24 math channels for online calculation
- Stores CAN Bus data directly to 128GB USB3.0 Stick or internal 32MB memory
- Supports USB Stick hot swap
- Developed for ultimate Data access speed via use of USB3.0 Sticks
- > with a storage rate of up to 400kByte/s
- A analog input channels
 → 1 Input can be switched to a Hybrid Input
- > 1 frequency input channel (up to 50kHz)
- CAN DB decoding

Options:

- > recording rate of analog input channels up to 16000 Hz per channel
- > 6DoF IMU with ±16G or ±30G Range
- > CAN: XCP/CCP option / "Listen only" Mode



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Technical specifications

CAN characteristics		
CAN channels		Up to 128
CAN Lines		2
CAN powered		yes
Baud rate	kBd	125 / 250 / 500 / 1000 / 2000
Sampling rate CAN channels	Hz	up to 200
optional	Hz	up to 1000
		-p
Storage characteristics	USB	supports 2.0/3.0
Max USB Stick size	GB	128
format		xFAT32
Max block size	GB	2
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	<00
max. nequency hybrid	KI IZ	
3 Axis acceleration (optional)		
Range switchable with 3 axes	G	±2/±4/±8/±16/±30
Error of linearity	FS	<1 %
Lowpass filter (programmable)	Hz	5 to 250
	Hz	
Sampling rate	HZ	1000
3 Axis yaw-rate (optional)		
	°/s	250 / 500 / 1000
Sensitivity		2000 / 4000
Error for linearity	FS	<1%
Lowpass filter (programmable)	Hz	5 to 250
Sampling rate	Hz	1000

Mechanical characteristics			
Housing Material	Aluminum		
Dimensions	mm 70 x 50 x 15		
Weight (cable included)	g 115		
CAN 1 Interface	Binder 712 5PF		
CAN 2 Interface	Binder 712 5PM		
Cable USB Stick	USB Type A, socket		
Length	mm 200		
Analog/Frequency Input	Binder 712, 8PF		
Serial GPS Input	Binder 712, 4PF		
contai or o input	Bildol 112, 111		
Electrical characteristics			
Supply voltage	V 6 to 18		
Current consumption @12V	mA 95		
Operation mode status indicator			
LED green/red blinking			
Environmental data			
Protection class	IP67		
Ambient operating range	°C -20 to +75		
Humidity	% 5 to 95		
Vibration resistance			
Shock	G 40		
During time period of	ms 10		
Vibration tested at	G 12		
Measured with	Hz 1000		

Ordering information

LG-CANStick2C_V4-000

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Connector layout

Connector type

CAN 1	1, Binder 712,	5PF		
Pin	Name	Description		
1	CAN 1 H	CAN 1 high		5 1
2	CAN 1 L	CAN 1 low		4 2
3	GND	Ground		3
4	n.c.	Not connected		
5	Vext	Power (6 to18V)		front view
CAN 2	2, Binder 712, 5	5PM		4.5
Pin	Name	Description		\sim
1	CAN 2 H	CAN 2 high		1• •5
2	CAN 2 L	CAN 2 low		20 04
3	GND	Ground		\ . /
4	KL15	KL15/switched power		3
5	Vext	Power (6 to18V)		front view
GPS,	Binder 712, 4P	F		
Pin	Name	Description		4 1
1	TxD	Transmit Data		U
2	RxD	Receive Data		3 2
3	GND	Ground		5 2
4	VCC	GPS Power Supply +5V		front view
Analo	q / Frequency	input, Binder 712, 8PF		ITOIL VIEw
Pin	Name	Description		
1	VCC	+5V Sensor supply		
2	GND	Ground		7 1
3	FREQ1	Frequency input 1		6 8 2
4	+12V	+12V Sensor supply		5 B
5	AIN1	Analog input 1		4
6	AIN2	Analog input 2		
7	AIN3	Analog input 3 / Hybrid Input		front view
8	AIN4	Analog input 4		
USB,	Type A, socke			
Pin	Name	Description	Color	
1	VCC	USB Power supply +5V	red	
2	Data -	Data line -	white	
	Data +	Data line +	green	
3		Ground	black	front view

CAN DB decoding

Every Setting change in the module creates automatically a CAN DB in C:/ProgramData/Race20xx/System/CAN-DB

Available Options

Order code	Option
LG-CANStick_OPT-001	CANStick Logger - Option +32 CAN channels
LG-CANStick_OPT-003	CANStick Logger - Option max. recording frequency 1000 Hz per Channel
LG-CANStick_OPT-005	CANStick Logger - Option CCP/XCP-Protocol
LG-CANStick_OPT-007	CANStick Logger - Internal Ring Buffer
	CANStick Logger - Option 6 DoF IMU
LG-CANStick_OPT-009	A) Individual range selection for accelerometers (±2/4/8/16G) and gyros (±250/500/1000/2000°/s)
	B) Individual range selection for accelerometers (±4/8/16/30G) and gyros (±500/1000/2000/4000°/s)
LG-CANStick_OPT-010	CANStick Logger - Option Rec. Freq max. 16000 Hz per analog channel

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