Ixxat®
BY HMS NETWORKS

USB-to-CAN V2 Plugin

Active USB interface

2 x CAN (High-/Low-Speed), LIN

The USB-to-CAN V2 Plugin enables the simple design in of a CAN interface into customer devices. At this, the compact dimensions predestine the use in applications where space is limited. Due to the very attractive price and the compact design the USB-to-CAN V2 Plugin interface is ideally suited for use in series production.

FEATURES AND BENEFITS

- Cost-effective and extremely versatile
- Compact dimensions
- Common driver interface for easy exchange of the PC interface type
- For industrial and automotive applications
- Galvanic isolation optional

VERSIONS

The IXXAT USB-to-CAN V2 plugin is based on the latest USB-to-CAN V2 family. The interface has the same characteristics as the other USB-to-CAN V2 variants and is fully supported by the IXXAT driver packages for Windows (VCI) and Linux (ECI).

With up to two CAN high speed channels, one CAN low speed channel and one LIN channel – which can be configured via software to operate as master or slave – a large range of applications can be covered, both in the industrial and automotive area.

COMPARISON OF THE DIFFERENT USB-CAN INTERFACES

HMS offers under the Ixxat brand different USB interfaces for CAN. Besides a one or two channel version and the support of CAN FD and LIN, also an embedded variant for implementation into customer devices is offered. An overview and comparison of the available USB interfaces can be found on the following page:

TECHNICAL SPECIFICATIONS

PC bus interface	USB 2.0, Hi-Speed
Microcontroller	32 bit
CAN controller	Internal; CAN 2.0 A/B
CAN baudrates	10 kBit/s ... 1 Mbit/s
CAN high-speed transceiver	TI SN65HVD251D
CAN low-speed transceiver (1)	TJA1055T
LIN transceiver [1]	TJA1020
LIN protocol [1]	V1.3 and V2.0
LIN baudrate [1]	max. 20 kBit/s
Galvanic isolation	optional, 1 kV, 1 sec.
Power supply	5 V, max. 500 mA via USB port
Temperature range	-40°C ... 85°C
Fieldbus connection	single row female header; 2,54 pitch
USB connection	single row female header; 2,54 pitch
Dimension	67.5 x 40 x 9.2 mm
Weight	max. 15 g
Certification	CE, EN 55022:2010, EN61000-6-1:2007

(1) only available for order number 1.01.0288.22043

CONTENTS OF DELIVERY

- USB-to-CAN V2 Plugin (selected variant)
- User manual*
- CAN driver VCI* for Windows XP, Windows 7, Windows 8, Windows 10
- CAN driver ECI* for Linux
- * available as download

Order numbers / variants

Variants / Features	CAN HS ports	CAN LS ports	LIN ports	Fieldbus galv. isolated	Order number
	1				1.01.0288.11003
	1			X	1.01.0288.12003
	2			X	1.01.0288.22003
	2 [1]	1	1 [2]	X	1.01.0288.22043

(1) One channel switchable via software between ISO11898-2 and ISO11898-3
(2) LIN Master/Slave operation mode switchable via software