

# Kvaser USBcan Pro 2xHS v2 User's Guide



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<https://www.kvaser.com>

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We believe that the information contained herein was accurate in all respects at the time of printing. Kvaser AB cannot, however, assume any responsibility for errors or omissions in this text. Also note that the information in this document is subject to change without notice and should not be construed as a commitment by Kvaser AB.

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## **1 About this manual**

This manual is intended for Kvaser USBcan Pro 2xHS v2 users. This document contains a description of the hardware's properties and general instructions for connecting the device to a computer.

## 2 Introduction

This section will describe the functions and features of the Kvaser USBcan Pro 2xHS v2.

### 2.1 Welcome to Kvaser USBcan Pro 2xHS v2



Figure 1: Kvaser USBcan Pro 2xHS v2

Kvaser USBcan Pro 2xHS v2 is a small, yet advanced, portable multi channel CAN to USB real time interface that handles transmission and reception of standard and extended CAN messages on the CAN bus with a high time stamp precision. The Kvaser USBcan Pro 2xHS v2 is compatible with applications that use Kvaser's CANlib.

This guide applies to Kvaser USBcan Pro 2xHS v2 devices using at least firmware and driver versions listed in Table 1. For minimum compatible firmware and driver versions of Kvaser USBcan Pro 2xHS v2 see Table 8 on Page 17.

Device	Product Number	Firmware	Driver (Windows/Linux)
Kvaser USBcan Pro 2xHS v2	73-30130-00752-9	v3.29	v5.41 (kcany/mhydra)

Table 1: Product number together with software versions needed to support all functionality present in this guide.

## 2.2 Major features

- USB CAN interface with Kvaser *t* programmability.
- Supports CAN FD, up to 8 Mbit/s (with correct physical layer implementation).
- Quick and easy plug-and-play installation.
- Supports both 11-bit (CAN 2.0A) and 29-bit (CAN 2.0B active) identifiers.
- Power is taken from the USB port.
- 100% compatible with applications written for other Kvaser CAN hardware with Kvaser CANlib.
- High-speed CAN connections (compliant with ISO 11898-2), up to 1 Mbit/s.
- Fully compatible with J1939, CANopen, NMEA 2000 and DeviceNet.
- Kvaser MagiSync – automatic time synchronization (see Section 4.7, Kvaser MagiSync, on Page 17 for more details).
- Kvaser CANtegrity – get a digital oscilloscope view of the CAN frame (see Section 4.8, Kvaser CANtegrity, on Page 18 for more details).
- Auto response buffers, to send messages on a defined event.
- Auto transmit buffers, to send messages on a defined interval.
- Supports simultaneous usage of multiple Kvaser interfaces.

## 2.3 Interface

Kvaser USBcan Pro 2xHS v2 provides a CAN bus interface through a standard USB interface.

## 2.4 The *t* programming language

The Kvaser *t* programming language is event oriented and modelled after C. It can be used to customize the behavior of the Kvaser USBcan Pro 2xHS v2 and other Kvaser *t* capable devices.

A *t* program is invoked via hooks, which are entry points that are executed at the occurrence of certain events. These events can be, for example, the arrival of specific CAN messages or a timer expiration.

Like any Kvaser CAN interface, the Kvaser USBcan Pro 2xHS v2 can be used via CANlib on a host computer. The addition of *t* programs running directly on the Kvaser USBcan Pro 2xHS v2 makes it possible to react much quicker to CAN bus events (for example to speed up file transfer protocols or to simulate missing hardware).

For more information, see the Kvaser *t* Programming Language guide that can be downloaded at [www.kvaser.com/download](http://www.kvaser.com/download).

## 2.5 Restrictions in t functionality

The Kvaser USBcan Pro 2xHS v2 is a dedicated CAN interface, and as such does not contain real-time clock (RTC), logger or SD card functionality, neither does the Kvaser USBcan Pro 2xHS v2 include dedicated I/O pins. This means that the t functionality listed in Table 2 on Page 7 is not available on Kvaser USBcan Pro 2xHS v2 (the table shows version 3.10 of the t language compiler).

Group	Function name
Hooks	on IoEvent
Predefined I/O Functions	kvIoGetNumberOfPins
	kvIoPinGetInfo
	kvIoPinSetInfo
	kvIoConfirmConfig
	kvIoPinSetDigital
	kvIoPinGetDigital
	kvIoPinGetOutputDigital
	kvIoPinSetRelay
	kvIoPinGetOutputRelay
	kvIoPinSetAnalog
	kvIoPinGetAnalog
	kvIoPinGetOutputAnalog
	Predefined File I/O Functions
fileClose	
fileGets	
fileReadBlock	
filePuts	
fileWriteBlock	
fileSeek	
fileDelete	
Predefined XML Functions	xmlOpen
	xmlClose
	xmlGet
Predefined t Program Related Functions	scriptLoad
Predefined Logger Related Functions	filterDropMessage
	loggerStatus
	loggerStart
	loggerStop
Other Predefined Functions	timeGetDate

Table 2: Functionality in the t language (v3.10) that is not supported by Kvaser USBcan Pro 2xHS v2.

## 2.6 Additional software and documentation

The Kvaser CANlib SDK includes everything you need in order to develop software applications interacting with Kvaser CAN and LIN hardware. The SDK contains full documentation and many sample programs, written in C, C++, C#, Delphi, Python and Visual Basic. Kvaser CAN and LIN hardware is built around the same common software API. Applications developed using one device type will run without modification on other device types.

The latest versions of documentation, software and drivers can be downloaded for free at [www.kvaser.com/download](http://www.kvaser.com/download).



## 3 Kvaser USBcan Pro 2xHS v2 hardware

In this section you can read more about the CAN channels, power supply and LED indicators.

### 3.1 Hardware installation

For the Kvaser USBcan Pro 2xHS v2 to communicate with the host computer, a compatible version of the Kvaser driver and firmware must be installed.

After the driver has been installed on the host computer, the firmware may then be downloaded and installed on the Kvaser USBcan Pro 2xHS v2.

The latest version of the driver and firmware can be downloaded from [www.kvaser.com/download](http://www.kvaser.com/download).

The driver is installed by running the file `kvaser_drivers_setup.exe`.

The Kvaser USBcan Pro 2xHS v2 may be inserted in any free USB socket on the host computer. You do not need to switch the power off before inserting or removing the device.

For information on how to upgrade the firmware, see Section 4.6, Updating the firmware, on Page 16.

### 3.2 USB connector

The Kvaser USBcan Pro 2xHS v2 has a standard USB type "A" connector.



Figure 2: A standard USB type "A" connector.

Connect the device to your computer using any high quality USB 2.0 certified cable. The maximum total USB cable length is 5 m (~ 16 ft).



As USB cables become longer they are more sensitive to EMI, because they make a longer antenna that can pick up more noise. These issues can be mitigated by using higher quality cables with better shielding. Thicker cables tend to be better than thin ones, and braided shielding tends to be more reliable than only foil. Furthermore, longer cables may introduce signal degradation and timing issues that, if necessary, can be mitigated using shorter cable segments combined with hubs that amplify the signal and handle delays on a per-cable basis.

### 3.3 CAN channels

The Kvaser USBcan Pro 2xHS v2 has two CAN channels in two separate 9-pin D-SUB CAN connector (see Figure 3). See Section 4.4, CAN connectors, on Page 15 for pinout information.



Figure 3: CAN connector on Kvaser USBcan Pro 2xHS v2

### 3.4 Power supply

The Kvaser USBcan Pro 2xHS v2 is powered from the USB port.

### 3.5 LED Indicators

The Kvaser USBcan Pro 2xHS v2 has one power LED and one traffic LED for each CAN channel as shown in Figure 4 on Page 11. Their functions are described in Section 4.1, Definitions of LED states and colors, on Page 12.



Figure 4: LEDs on the Kvaser USBcan Pro 2xHS v2.

### 3.6 Troubleshooting

Use “Kvaser Device Guide” in the Control Panel to verify that the computer can communicate with the Kvaser USBcan Pro 2xHS v2. If the firmware version shown is all zeros, there are communication problems. If the LEDs are not flashing or do not light up at all, check the power supply.

## 4 Appendices

In this section you will find technical information about the Kvaser USBcan Pro 2xHS v2 and its connectors.

### 4.1 Definitions of LED states and colors

A Kvaser device has two basic types of LEDs; Power and Traffic. These are dual colored as shown in Table 3. A device with multiple CAN channels has one Traffic LED for each CAN channel. When the device has more than one channel a space and digit is added on the label, CAN 1, CAN 2 etc. The red Traffic LEDs are also used to indicate errors by using all red Traffic LEDs simultaneously.

LED	Label	Color
Power	PWR	Green/Yellow
Traffic	CAN	Yellow/Red

Table 3: The different type of LEDs.

The following definitions is used to describe the state of an LED:

**Off** The LED is off and no light is emitted.

**Flash** The LED is lit up for a very short time. A single flash may be hard to see and a continuous set of flashes will look the same as On.

**Slow Blink** The LED is repeatedly turned On and Off. The On and Off phase is equal in time.

**Fast Blink** The LED is repeatedly turned On and Off but with a higher frequency than Slow Blink. The On and Off time is still equal.

**On** The LED is constantly emitting light.

**Slow Waver** This is a variant of Slow Blink but instead of being Off, a second color is On. This is only possible with a dual colored LED.

**Fast Waver** The LED is alternating between two colors as in Slow Waver but using a higher frequency.

**Running** This means that all LEDs are lit, one at the time, in sequence with every color available i.e. "Power green->Power yellow->Traffic 1 yellow->Traffic 1 red->Traffic 2 yellow->Traffic 2 red->..."

As an example, "Slow Waver (Green/Yellow)" means that the LED is slowly blinking by alternating between green and yellow.

### 4.1.1 Interface mode

The device is in Interface mode when connected to the host computer via USB. If the Power LED is showing a steady green light, the device is in Interface mode and working correctly. When connected to the computer for the first time, the Power LED will blink slowly in yellow until the driver is installed and the device has received a USB configuration.

When in Interface mode, if the Power LED is yellow for an extended period, something is wrong. Please see Table 4.



The power should never be removed when firmware update is in progress.

Power LED	Traffic LED	Description
Slow Blink (Yellow)	All off (-)	Waiting for USB configuration
Slow Waver (Green/Yellow)	Slow Waver (Yellow/Red)	Firmware configuration error <sup>1</sup>
Slow Waver (Green/Yellow)	All Slow Blink (Yellow)	Power problem <sup>2</sup>

Table 4: Yellow Power LED shows problems in Interface mode.

Traffic LED	Description
Off (-)	Idle, no CAN traffic
Flash (Yellow)	CAN message received or sent
Flash (Red)	Error frame received
All Fast Blink (Yellow)	Firmware update is in progress
Fast Blink (Red)	CAN channel is error passive
On (Red) <sup>3</sup>	CAN overrun

Table 5: Traffic LED shows CAN bus status in Interface mode .

### 4.1.2 Status of scripts

There are by default no LED indications showing the state of a t program. Instead, the developer of a script can override any of the existing LEDs and create notifications as needed when the t program is running, including program exceptions.

<sup>1</sup>This should not normally happen. If it does, please contact Kvaser support.

<sup>2</sup>This indicates low power supply, such as using an unpowered USB hub.

<sup>3</sup>The red Traffic LED indicating overrun will stay on until the device goes bus off.

## 4.2 Start and stop of t programs

All events that a t program will react to are specified using various event hooks. In effect, these are functions which are called when the specific events occur. Among other events, the program can react to starting and stopping itself which this section describes. Read the Kvaser t Programming Language guide that can be downloaded at [www.kvaser.com/download](http://www.kvaser.com/download) for more information.

The “on start” event will be triggered in the Kvaser USBcan Pro 2xHS v2 when any of the following occurs:

- When a t program is started using the CANlib API (`kvScriptStart()`).
- When a t program is started from another t program.

The “on stop” event will be triggered for running t programs during the corresponding cases:

- When a t program is stopped using the CANlib API (`kvScriptStop()`).
- When a t program is stopped from another t program.

## 4.3 Technical data

In Table 6 on Page 15 you will find the technical specifications of Kvaser USBcan Pro 2xHS v2.

CAN Channels	2
CAN Transceivers	MCP2561FD (Compliant with ISO 11898-2)
CAN Controller	Kvaser CAN IP in FPGA
Galvanic isolation	Yes
CAN Bit Rate	20 kbit/s to 1 Mbit/s
CAN FD Bit Rate	Up to 8 Mbit/s (with correct physical layer implementation)
Time stamp resolution	1 $\mu$ s
Max message rate	20000 msg/s per channel
Error Frame Detection	Yes
Error Frame Generation	Yes
Silent mode	Yes
Kvaser MagiSync	Yes
Kvaser t programming	Yes
Kvaser CANtegrity	Yes
Host interface	USB Hi-Speed
Host OS	Windows (7 or later), Linux, Android.
Power consumption	max 500 mA
Hardware configuration	Done by software (Plug & Play).
Dimensions	50 x 170 x 20 mm for body incl. strain relief
Weight	170 g
Operating temperature	-40 °C to +85 °C
Storage temperature	-40 °C to +85 °C
Relative humidity	0 % to 85 % (non-condensing.)

Table 6: Technical Specifications.

#### 4.4 CAN connectors

Kvaser USBcan Pro 2xHS v2 devices that use the 9-pin D-SUB connector (see Figure 5) have the pinning described in Table 7 on Page 16.

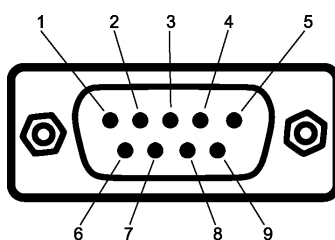


Figure 5: The D-SUB 9 connector pin numbers

D-SUB pin number	Function
1	Not connected
2	CAN_L
3	GND
4	Not connected
5	Shield
6	Not connected
7	CAN_H
8	Not connected
9	Not connected

Table 7: Configuration of the 9-pin D-SUB

## 4.5 CAN bus termination

Every CAN bus must be terminated with a 120 Ohm resistor at each end of the bus. The Kvaser USBcan Pro 2xHS v2 does not contain any CAN bus termination, because their inclusion could cause severe disturbance in a system which is already correctly terminated.

For laboratory or testing use, the exact value of the termination resistors is not always critical. Sometimes a single terminator is sufficient. For production, proper termination is essential. If you see error frames on the bus, you should check the termination.



**To save yourself a lot of trouble, always terminate the CAN bus properly.**

## 4.6 Updating the firmware

For the Kvaser USBcan Pro 2xHS v2 to communicate with the host computer, compatible versions of the Kvaser CANlib (including driver) and firmware must be installed.

The latest versions of firmware and drivers can be downloaded for free at [www.kvaser.com/download](http://www.kvaser.com/download).

Connect the Kvaser USBcan Pro 2xHS v2 to your host computer with the USB cable and start the update.exe application. A window opens showing the Firmware Update Instructions; read and follow those carefully.

To check the current firmware version, open "Kvaser Device Guide" which can be found in the Control Panel. Select "Kvaser USBcan Pro 2xHS v2" in the tree view to the left, and click on the channel. The firmware revision information now appears in the right half of the window.



The absolute minimum firmware and driver versions needed in order to use Kvaser USBcan Pro 2xHS v2 are listed in Table 8 on Page 17

Device	Min. Firmware Version	Min. Driver Version
Kvaser USBcan Pro 2xHS v2	v3.29	V5.41

Table 8: Minimum compatible driver and firmware versions of Kvaser USBcan Pro 2xHS v2.

## 4.7 Kvaser MagiSync

Time synchronization is needed to achieve accurate and precise time stamping between several host computer-to-bus interfaces connected to one host computer. Since each host computer-to-bus interface uses its on-board clock to set the time stamps.

Kvaser MagiSync is an innovative way to synchronize several different Kvaser USB interfaces. You do not need external cables - you get instant synchronisation when you connect the MagiSync enabled Kvaser USB device.

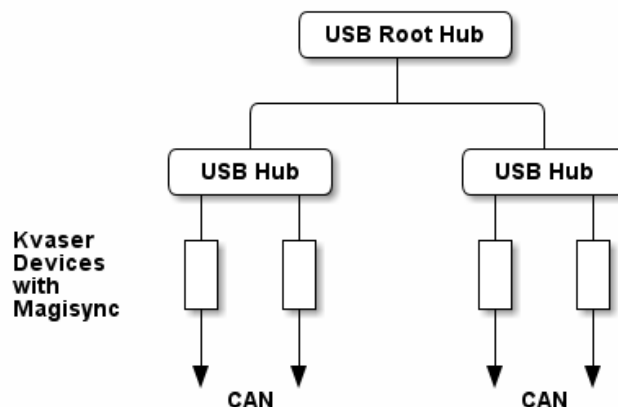


Figure 6: An example setup where all devices are synchronized via MagiSync.

For this to work the Kvaser USB interfaces must reside on the same USB root hub. If they do not they will not be synchronized, see Figure 6 and Figure 7 on Page 18.

Usually, a computer has a USB controller with one root hub in a computer. If you use that one, you do not need an external USB hub to get your Kvaser Devices synchronized. The easiest way to verify the setup is to view Synchronized Hardware in the Device Tree of “Kvaser Device Guide” in your computer’s control panel. If all your hardware is placed in one Kvaser MagiSync Group, then you are ready to go.

When connected correctly, all units are synchronized achieving a high precision virtual clock accurate to the microsecond.

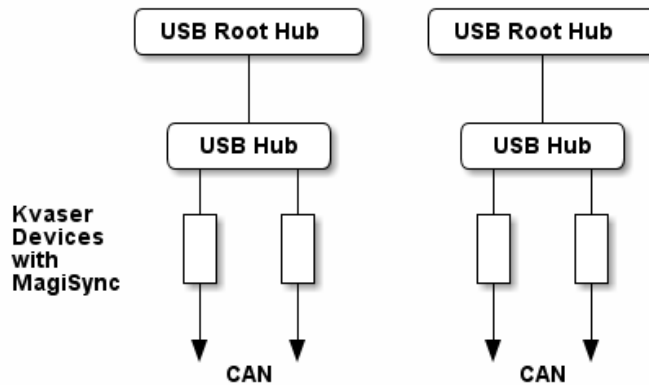


Figure 7: Not all devices are synchronized via MagiSync in this setup.

## 4.8 Kvaser CANtegrity

Kvaser CANtegrity is an extension to the logic of the CAN FD controller that provides deeper knowledge about each CAN frame. With this knowledge it is possible to provide the following information:

- A digital oscilloscope view on the CAN frames.
- Bit length deviations over time.
- Asymmetric propagation delays for dominant and recessive bits.

The Kvaser CANtegrity logic may run different event programs depending on what type of information that should be collected. As an example, one such event program will search for CAN frames according to a defined bit rate and will record everything that looks like a CAN frame, including Error frames.

Figure 8 on Page 19 shows an example of visualizing the information retrieved by the Kvaser CANtegrity function included in the Kvaser USBcan Pro 2xHS v2 (00752-9). More information about Kvaser CANtegrity can be found on <https://www.kvaser.com/kvaser-cantegrity/>.

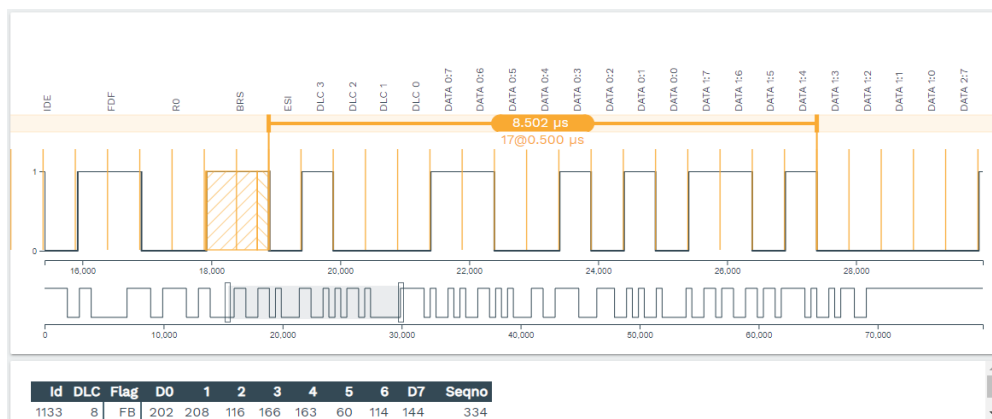


Figure 8: Using information from Kvaser CANtegrity, the time between two edges can be measured.

## 5 Safety Instructions

### 5.1 Intended Use

Kvaser interfaces are used to connect computer systems to CAN buses. The Kvaser USBcan Pro 2xHS v2 is intended for connection to a computer via the USB port.

### 5.2 Usage Warning



#### **WARNING FOR ALL USERS**

WARNING! - YOUR USE OF THIS DEVICE MUST BE DONE WITH CAUTION AND A FULL UNDERSTANDING OF THE RISKS!

THIS WARNING IS PRESENTED TO INFORM YOU THAT THE OPERATION OF THIS DEVICE MAY BE DANGEROUS. YOUR ACTIONS CAN INFLUENCE THE BEHAVIOR OF A CAN-BASED DISTRIBUTED EMBEDDED SYSTEM, AND DEPENDING ON THE APPLICATION, THE CONSEQUENCES OF YOUR IMPROPER ACTIONS COULD CAUSE SERIOUS OPERATIONAL MALFUNCTION, LOSS OF INFORMATION, DAMAGE TO EQUIPMENT, AND PHYSICAL INJURY TO YOURSELF AND OTHERS. A POTENTIALLY HAZARDOUS OPERATING CONDITION IS PRESENT WHEN THE FOLLOWING TWO CONDITIONS ARE CONCURRENTLY TRUE: THE PRODUCT IS PHYSICALLY INTERCONNECTED TO A REAL DISTRIBUTED EMBEDDED SYSTEM; AND THE FUNCTIONS AND OPERATIONS OF THE REAL DISTRIBUTED EMBEDDED SYSTEM ARE CONTROLLABLE OR INFLUENCED BY THE USE OF THE CAN NETWORK. A POTENTIALLY HAZARDOUS OPERATING CONDITION MAY RESULT FROM THE ACTIVITY OR NON-ACTIVITY OF SOME DISTRIBUTED EMBEDDED SYSTEM FUNCTIONS AND OPERATIONS, WHICH MAY RESULT IN SERIOUS PHYSICAL HARM OR DEATH OR CAUSE DAMAGE TO EQUIPMENT, DEVICES, OR THE SURROUNDING ENVIRONMENT.

WITH THIS DEVICE, YOU MAY POTENTIALLY:

- CAUSE A CHANGE IN THE OPERATION OF THE SYSTEM, MODULE, DEVICE, CIRCUIT, OR OUTPUT.
- TURN ON OR ACTIVATE A MODULE, DEVICE, CIRCUIT, OUTPUT, OR FUNCTION.
- TURN OFF OR DEACTIVATE A MODULE, DEVICE, CIRCUIT, OUTPUT, OR FUNCTION.
- INHIBIT, TURN OFF, OR DEACTIVATE NORMAL OPERATION.
- MODIFY THE BEHAVIOR OF A DISTRIBUTED PRODUCT.
- ACTIVATE AN UNINTENDED OPERATION.
- PLACE THE SYSTEM, MODULE, DEVICE, CIRCUIT, OR OUTPUT INTO AN UNINTENDED MODE.

ONLY THOSE PERSONS WHO:

- (A) ARE PROPERLY TRAINED AND QUALIFIED WITH RESPECT TO THE USE OF THE DEVICE,
- (B) UNDERSTAND THE WARNINGS ABOVE, AND
- (C) UNDERSTAND HOW THIS DEVICE INTERACTS WITH AND IMPACTS THE FUNCTION AND SAFETY OF OTHER PRODUCTS IN A DISTRIBUTED SYSTEM AND THE APPLICATION FOR WHICH THIS DEVICE WILL BE APPLIED, MAY USE THE DEVICE.

PLEASE NOTE THAT YOU CAN INTEGRATE THIS PRODUCT AS A SUBSYSTEM INTO HIGHER-LEVEL SYSTEMS. IN CASE YOU DO SO, KVASER AB HEREBY DECLARES THAT KVASER AB'S WARRANTY SHALL BE LIMITED TO THE CORRECTION OF DEFECTS, AND KVASER AB HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY OVER AND ABOVE THE REFUNDING OF THE PRICE PAID FOR THIS DEVICE, SINCE KVASER AB DOES NOT HAVE ANY INFLUENCE ON THE IMPLEMENTATIONS OF THE HIGHER-LEVEL SYSTEM, WHICH MAY BE DEFECTIVE.

## 6 Disposal and Recycling Information



When this product reaches its end of life, please dispose of it according to your local environmental laws and guidelines.

For information about Kvaser's recycling programs, visit:  
<https://www.kvaser.com/en/kvaser/recycling-policy.html>



## 7 Legal acknowledgements

### 7.1 EU Regulatory Compliance



#### EU Declaration of Conformity (DoC)

We

Company Name:	Kvaser AB	City:	Mölndal
Postal address:	Aminogatan 25	Telephone number:	+46 31 886344
Postcode:	431 53	E-mail address:	sales@kvaser.com

declare that the DoC is issued under our sole responsibility and belongs to the following product:

Product: Kvaser USBcan Pro 2xHS v2

**Object of the declaration** (identification of apparatus allowing traceability):

Product: Kvaser USBcan Pro 2xHS v2

Type: 73-30130-00752-9

**The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:**

Electromagnetic Compatibility (EMC) Directive 2014/30/EU (Art. 6)

RoHS recast Directive 2011/65/EU (Art. 4.1)

**The following harmonised standards and technical specifications have been applied**  
(title, date of standard/specification):

EN 55024 (2010) EN 55032 (2012)

EN 61000-6-3 (2007 + A1:2011) EN 50581 (2012)


Signed for and on behalf of:

Mölndal

2019-12-05

Place of issue

Date of issue

  
Claes Haglund, Supply Chain and Quality Director



## 7.2 FCC Regulatory Compliance



### Federal Communications Commission (FCC) Compliance Information Statement

**IDENTIFICATION OBJECT:**

Product: Kvaser USBcan Pro 2xHS v2

Type: 73-30130-00752-9

**APPLICABLE COMPLIANCE STATEMENTS:**

CFR Title 47 Part 15 §15.107, §15.109

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

**RESPONSIBLE PARTY (IN USA) NAME:**

Kvaser Inc.

23881 Via Fabricante, Suite 503

Mission Viejo, CA 92691

Internet contact: [support@kvaser.com](mailto:support@kvaser.com)



### **7.3 Patents, Copyrights and Trademarks**

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Adobe, the Adobe logo, and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

MagiSync is a trademark of Kvaser AB.

DeviceNet is a trademark of Open DeviceNet Vendor Association, Inc.

NMEA 2000 is the registered trademark of the National Marine Electronics Association, Inc.

For information about Kvaser related CAN patents, see [www.kvaser.com/patent](http://www.kvaser.com/patent).

## 8 Document Revision History

Version history for document UG\_98177\_usbcan\_pro\_2hs:

Revision	Date	Changes
1.0	2015-08-10	Initial version
1.1	2015-10-29	Minor textual changes, corrected device name
1.2	2017-01-09	Updated compliance text, added link to patents
2.0	2017-08-25	Updated references to Kvaser Hardware and EU Declaration of Conformity
2.1	2018-01-29	“Kvaser Device Guide” has replaced “Kvaser Hardware”
2.2	2018-05-07	Minor textual changes
2.3	2018-08-28	Minor textual changes
3.0	2018-11-12	Updated EU Regulatory Compliance, updated restrictions in t
3.1	2019-02-11	Minor textual changes
3.2	2019-08-09	Url protocol updated
3.3	2020-01-27	Added sdoc
3.4	2020-08-19	Updated supported OS
4.0	2021-09-09	CANtegrity support was added, dropped mention of Hi-Speed CAN
4.1	2022-02-15	Added chapter about CANtegrity
4.2	2022-04-01	Added Android to Technical data table, minor textual changes
4.3	2023-02-20	Updated the Technical data table. Updated firmware and driver information. Added section about intended use. Minor textual changes