



KAmoD CAN SN65HVD230



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Źródło: https://wiki.kamamilabs.com/index.php?title=KAmoD_CAN_SN65HVD230

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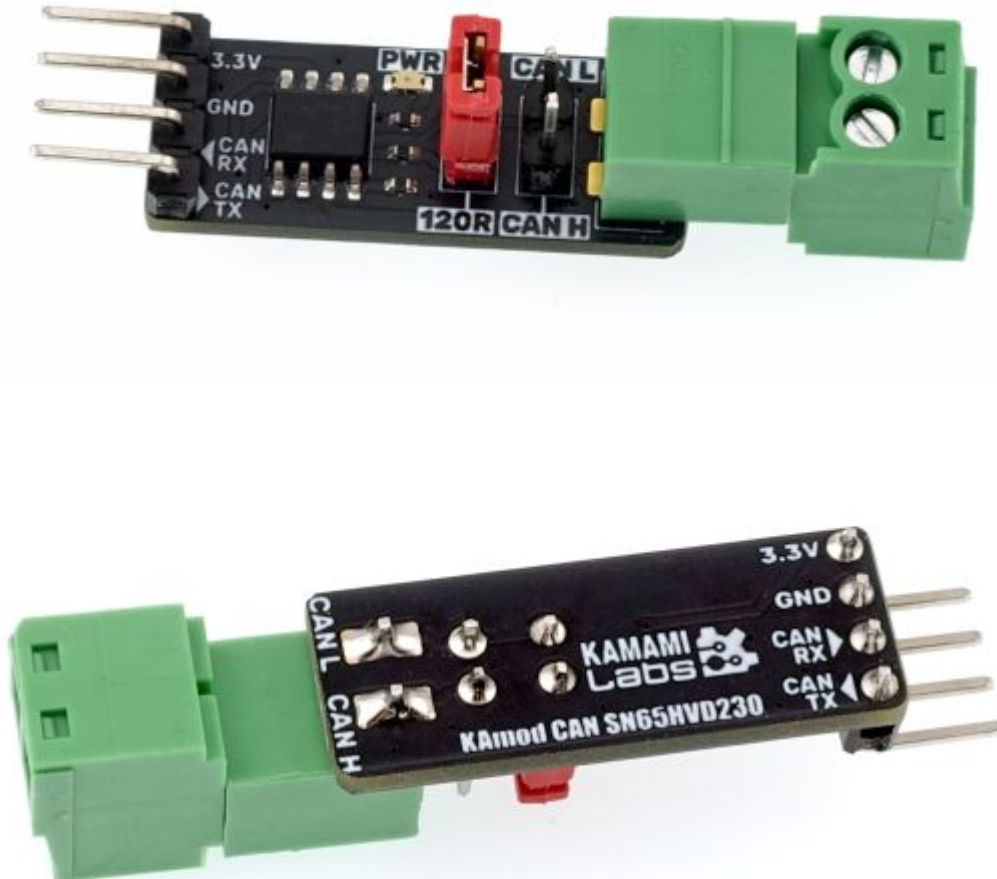
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Description

KAmoD CAN SN65HVD230 - CAN Transceiver with SN65HVD230 Chip for 3.3V Systems

The KAmoD CAN SN65HVD230 module allows you to connect a microcontroller/microcomputer equipped with a CAN interface controller to the CAN bus. It includes the SN65HVD230 chip, compatible with the PCA82C250, which is designed for a 3.3V power supply and can therefore directly interface with many modern microcontrollers (no voltage translators required). Furthermore, it includes a number of integrated protections and operates in EM emission reduction mode.



Basic Parameters

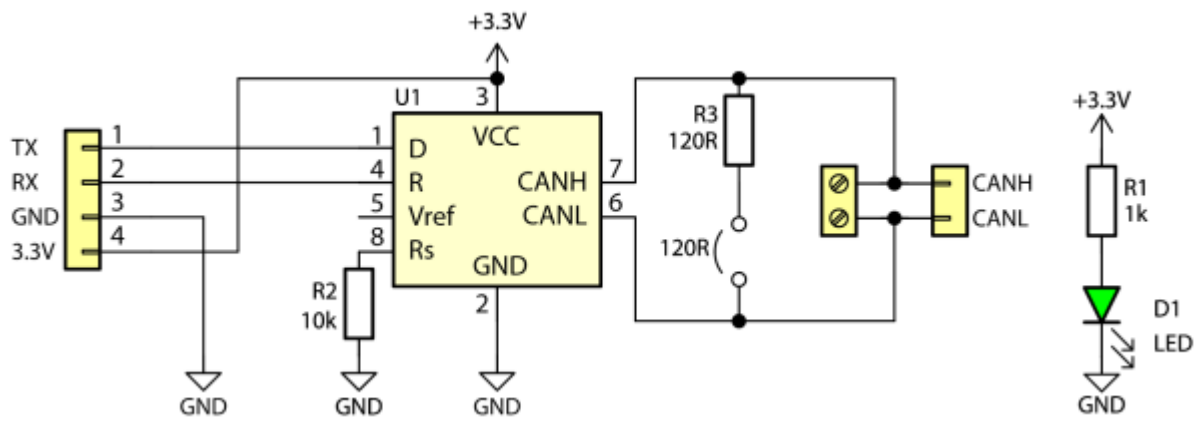
- Power supply and control line voltage: 3.3 V
- Control: serial interface, TX, RX lines
- CAN bus, up to 120 devices
- SN65HVD230 transceiver, compatible with PCA82C250
- Integrated ESD protection
- Hot pluggable
- Option to connect an integrated 120 Ω terminating resistor
- CAN bus lines are connected as 1x2 goldpin pins and a 3.81 mm Phoenix MC connector
- Control connector: 1x4 goldpin pins
- Power LED
- Module board dimensions: 27 x 10.5 mm

Standard Equipment

Code	Description
KAmod CAN SN65HVD230	• Assembled and powered-up module



Schematic

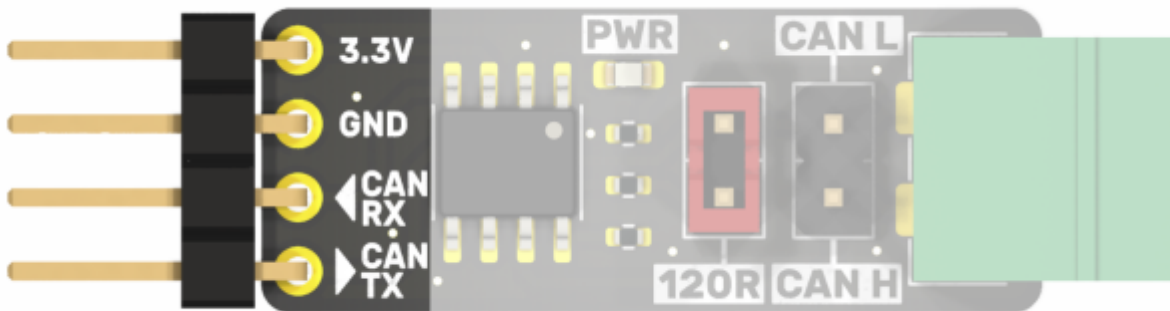


Signal Layout on the Board

The KAmoD CAN SN65HVD230 module is not a CAN bus controller and does not generate CAN-compliant data frames. Data in the appropriate format must be sent to the module's serial input from a control system—e.g., a microcontroller with an integrated CAN controller.

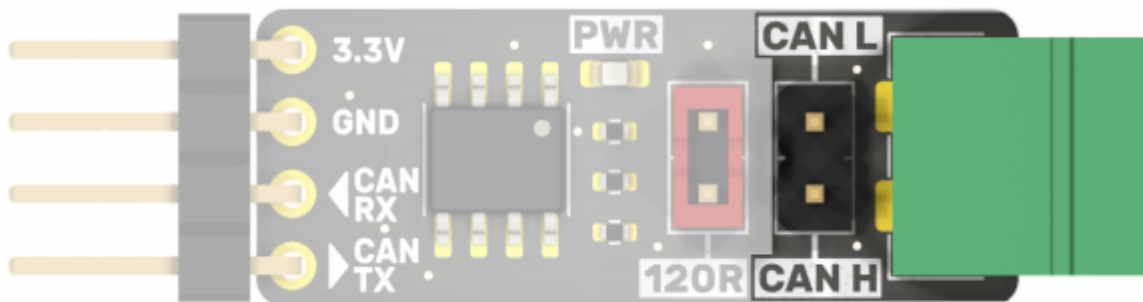
The functions of the individual pins on the 1x4 connector are as follows:

Marking	Function
3.3V	3.3V power input, positive pole
GND	Power supply ground - negative pole
CAN RX	Serial output of data read from the CAN bus
CAN TX	Serial data input to the CAN bus



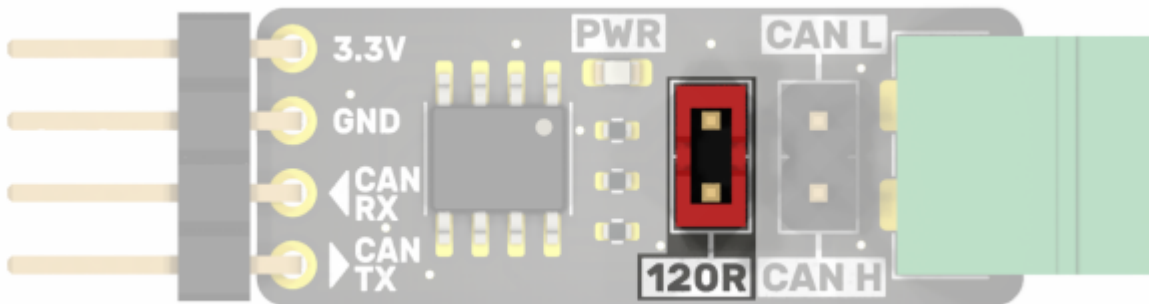
The bus lines are marked CAN L and CAN H and are available on a Phoenix MC connector and on goldpins with a standard 2.54 mm pitch. Their layout is shown in the drawing and is described on the top and bottom of the module board.

Marking	Function
CANL	CAN bus transmission line
CANH	CAN bus transmission line

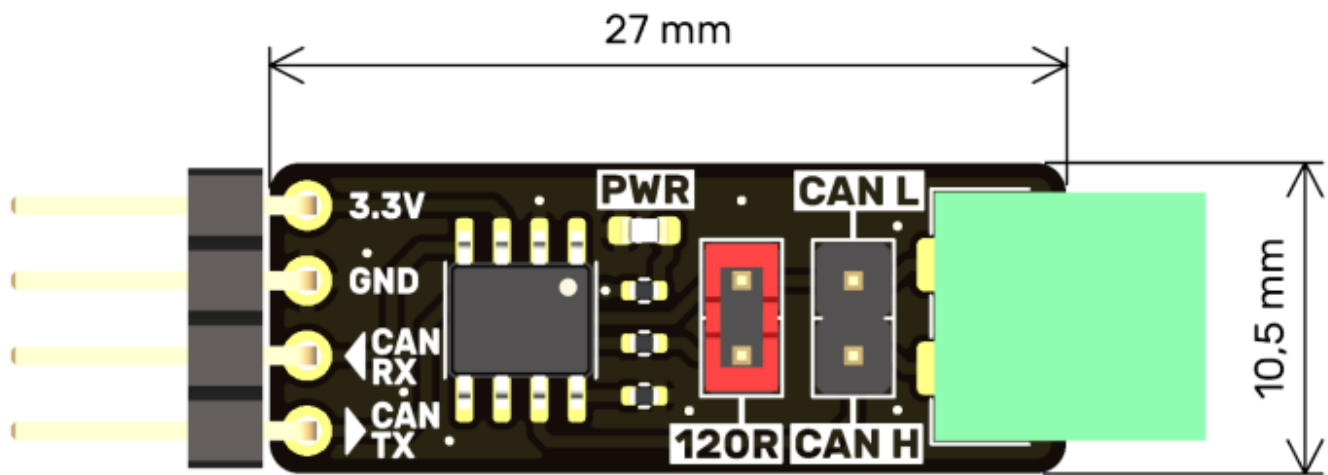


Connecting a Terminating Resistor

The module allows you to connect a 120 Ω terminating resistor to the CAN bus line. This solution should only be used when the module is located at one end of the CAN bus. This function is active when the jumper marked "120R" is installed.

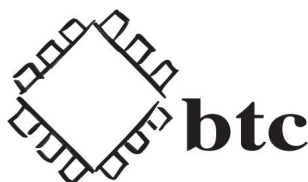


Dimensions



Links

- [Data sheet SN65HVD230](#)
- [CAD model \(STEP\)](#)



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