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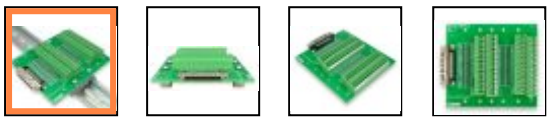
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68-Pin VHDCI Breakout Board with Spring Terminals



BRKGVH68FV1-R-DIN
(click image to enlarge)

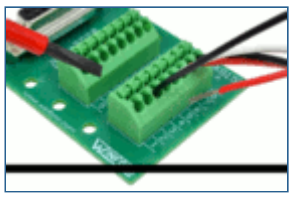


- 68-pin VHDCI connector
- Compatible with certain National Instruments DAQ boards
- Quick connection spring cage terminal blocks for each of the 68 lines, plus shield
- Solder pad connection space for all 68 lines and shield
- Supports addition of 0.1" pin headers
- Fast and easy connections
- Perfect for prototyping and permanent installations
- Rubber feet or DIN rail mount

General Description

Make connections quickly and reliably with this breakout board, which brings every pin of its 68-pin VHDCI (**V**ery **H**igh **D**ensity **I**nterconnect) connector out to spring terminals.

Each pin, including shield, is also brought to solder pads (2 per pin) at 0.1" spacing, allowing easy addition of pin headers or other components. Please note that the breakout boards are manufactured with a connection between each connector pin and the corresponding terminal block position; no soldering of any type is necessary. The solder pads simply provide an area for making optional connections to additional headers or other components.



This breakout board features push-in spring connection terminal blocks. These screwless spring clamp terminal blocks allow connections to be made very quickly and efficiently. The spring terminal connections are reliable and secure, but wires can be connected and disconnected in a fraction of the time required with standard screw terminal blocks. Simply depress the actuator button on top of the terminal block, insert or remove the wire, and release the button. Done! In addition, screwless spring connections can offer better results in environments where vibration could potentially loosen standard screw terminal block connections. If your application requires screw terminals rather than spring terminals, please consider the BRKAVH68FV1 design.

The BRKGVH68FV1-R breakout board contains a female 68-pin VHDCI connector, which is sometimes referred to as a SCSI-5 connector. This style of connector is used by a number of equipment vendors, including National Instruments™.

National Instruments Compatibility

National Instruments™ uses this 68-pin VHDCI connector on some of their DAQ cards, making this breakout board a good option for interfacing to these National Instruments products. Note that NI™ actually uses two different styles of 68-pin connectors: the VHDCI, and the half-pitch DSUB (0.050 D-type). The Winford Engineering BRKGVH68FV1-R uses the VHDCI connector. This breakout board can also be used with 0.050 D-type boards by using an appropriate adapter cable.

At the time of this writing, National Instruments does not offer a breakout board / connector block for the 68-pin VHDCI connector. Instead, they offer a 68-pin half-pitch DSUB (0.050 D-type) connector block to support their 68-pin VHDCI DAQ boards; this requires the use of an adapter cable to convert between VHDCI and 0.050 DSUB. A typical combination of NI hardware would be the NI SCB-68A connector block and the SHC68-68-EPM adapter cable, or equivalent. In contrast, the BRKGVH68FV1-R breakout board can connect directly to VHDCI devices by using a standard VHDCI cable. Thus the BRKGVH68FV1-R breakout board is an alternative to the National Instruments SCB-68 or SCB-68A breakout module when interfacing to a VHDCI connector.

Note: "National Instruments" and "NI" are trademarks of National Instruments. Neither Winford Engineering, nor any software programs or other goods or services offered by Winford Engineering, are affiliated with, endorsed by, or sponsored by National Instruments.

This breakout board is perfect for production applications as well as experimentation and prototype work. It is helpful for working with I/O cards, Data Aquisition (DAQ) devices, control systems, and other devices that use a 68-pin VHDCI (Very High Density Cable Interconnect) connector.

Need something different? We stock several VHDCI breakout board styles and form factors. Please have a look!

ℹ A breakout board is sometimes referred to as a "transition module", "terminal board", "terminal block", "breakout box", "breakout adapter", "terminator", or "interface module".

Product Documents

BRKGVH68FV1-R-DIN Revision: A

VHDCI, Right Angle, DIN Mount

BRKGVH68FV1-R-DIN Revision: B

VHDCI, Right Angle, DIN Mount

BRKGVH68FV1-R-FT Revision: A

VHDCI, Right Angle, Feet

BRKGVH68FV1-R-FT Revision: B

VHDCI, Right Angle, Feet

Connector Guide

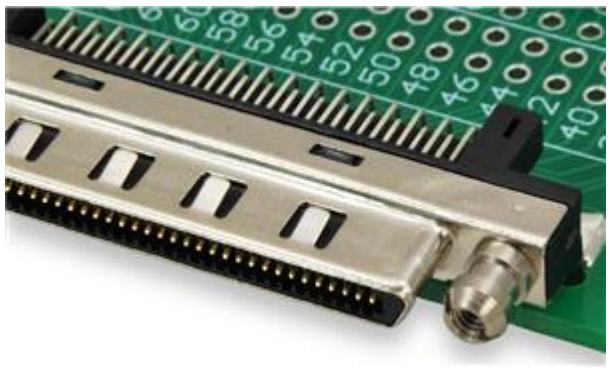
Which connector do I have? Consult this helpful identification guide.

VHDCI Connector Details

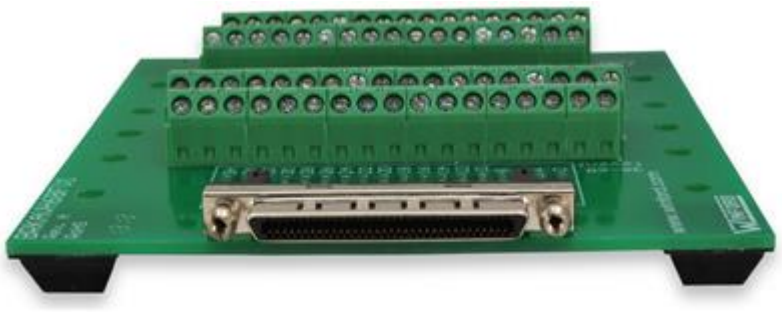
The VHDCI connector provides a compact arrangement of sliding contacts. The high contact density (0.8mm pitch) and good performance at high speeds make this connector a good choice for numerous applications, such as DAQ and SCSCI-5 equipment. For these breakout boards, Winford Engineering currently utilizes VHDCI connectors from Amphenol™ or TE™. Connector details are listed below.

VHDCI Connector Details		
Manufacturer	Amphenol	TE
Mfg. Part #	HE11-RAA-101	5796055-1
Jack Sockets	M2 x 0.4 female thread	M2 x 0.4 female thread

The connector used on these breakout boards contains screw locks/jack screws for securing a mating cable. The jack screws accept M2 x 0.4 thread screws.



Screw Locks / Jack Screws
Click image to enlarge.



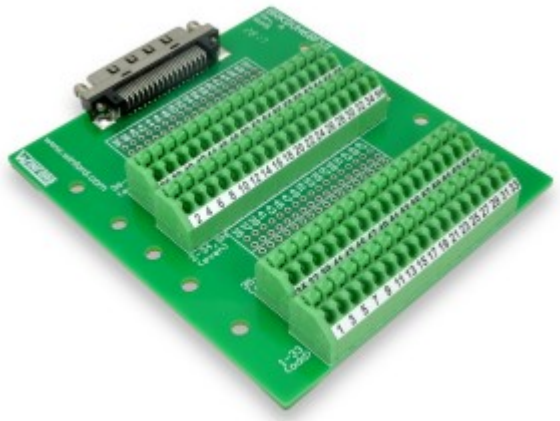
Connector Straight-On View
Click image to enlarge.

Mounting Options

These products are available in two different mounting variants. Product numbers ending with **-DIN** come with DIN clips already installed and ready to snap onto 35mm or 32mm DIN rail. Product numbers ending with **-FT** have stick-on rubber feet installed on the bottom side, allowing for benchtop use or panel mounting. For panel mounting, we suggest 1/4" nylon standoffs under the mounting holes, and #6 screws.



DIN Rail Mount
BRKGVH68FV1-R-**DIN**
Click image to enlarge.
Rail not included



Rubber Feet
BRKGVH68FV1-R-**FT**
Click image to enlarge.

Cables

Winford Engineering offers 68-pin VHDCI cables (shown below) which are compatible with these breakout boards.



VHDCI Cable
CBVH68M-3 pictured
Click image to enlarge.

Product Details

- 68-pin VHDCI connector
- Suitable alternative to National Instruments SCB-68A connector block when interfacing to a VHDCI connector
- Connector contains jack screws
- Quick connection spring cage terminal blocks for each of the 68 lines, plus shield
- Solder pad connection holes, two (2) per line
- Supports addition of 0.1" pin headers
- Spring terminals accommodate wire sizes from 16AWG to 24AWG
- Approximate dimensions: 3.85"; x 3.5"
- Rubber feet or DIN rail mount

Product Revisions

Revision B of these boards introduce two minor changes, which are not expected to impact the user:

- PCB thickness was increased to 0.079"; Rev. A was 0.062" thick. This change was made for internal assembly process reasons.
- The silkscreen overlay fonts were updated to the latest Winford design standards.

VHDCI, 68-Pin Female Right Angle Connector:

BRKGVH68FV1-R-DIN RoHS ✔ Yes

VHDCI 68-Pin Female Breakout Board, R/A, Spring Terminals, DIN Rail Mount

1 Add to Cart

Quantity	Price
1+	$99.60
10+	$94.00

BRKGVH68FV1-R-FT RoHS ✔ Yes

VHDCI 68-Pin Female Breakout Board, R/A, Spring Terminals, Feet

1 Add to Cart

Quantity	Price
1+	$97.90
10+	$92.35

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