

1008 VHDCI Carrier

Features

- 8 channels
- 8 internal EEM connectors
- 2 external VHDCI connectors

Applications

- Break out VHDCI to extension boards
- Carry signals over VHDCI between crates
- Low-cost alternative to DRTIO
- Adapter for certain KC705 ARTIQ systems

General Description

The 1008 VHDCI Carrier is a 4hp EEM module, part of the ARTIQ/Sinara family. It is a passive adapter card which converts VHDCI connections to or from EEM connections.

The 1008 VHDCI Carrier is bidirectional; it can be driven by a core device carrier board, or can drive other cards.

A pair of VHDCI Carrier cards can be paired with VHDCI SCSI-3 cables to carry EEM signals over short distances between crates. Depending on the application, this can serve as a simple, low-cost, low-latency alternative to multiple core devices and ARTIQ DRTIO.

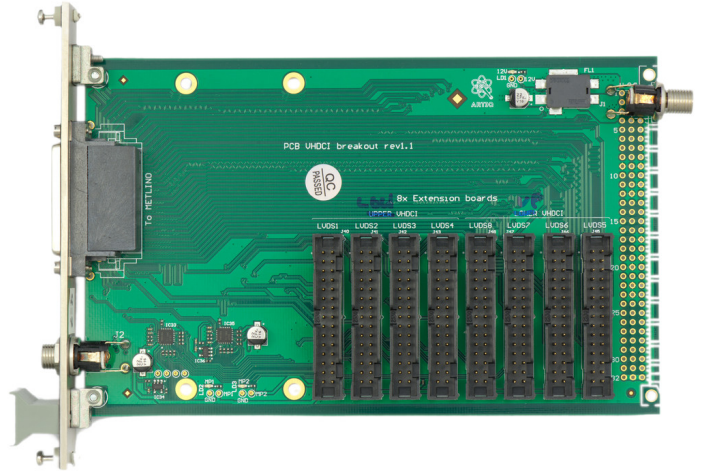


Figure 1: VHDCI Carrier card

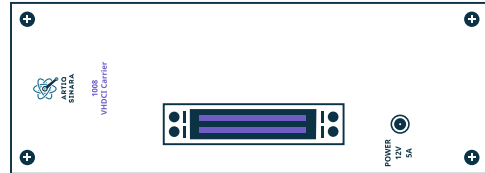


Figure 2: VHDCI Carrier front panel

Source

1008 VHDCI Carrier, like all the Sinara hardware family, is open-source hardware, and design files (schematics, PCB layouts, BOMs) can be found in detail at the repository https://github.com/sinara-hw/VHDCI_Carrier.

Electrical Specifications

Table 1: Electrical Specifications

Parameter	Max. Value	Unit	Conditions
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Power supply is required when driving EEM cards. 12V should be supplied through barrel jacks (2.50 mm ID, 5.50 mm OD) either in front panel or at back of card.

Ordering Information

To order, please visit <https://m-labs.hk> and choose 1008 VHDCI Carrier in the ARTIQ/Sinara hardware selection tool. Cards can be ordered as part of a fully-featured ARTIQ/Sinara crate or standalone through the 'Spare cards' option. Otherwise, orders can also be made by writing directly to <mailto:sales@m-labs.hk>.

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