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PCI CD-60

GET A QUOTE (HTTP://EDT.COM/REQUEST-FOR-QUOTE?PRODUCT=1553)

60 MB /Second Configurable DMA Interface for PCI Local Bus Computers

The PCI CD-60 has been **discontinued** and is no longer available. The PCI CDa (http://edt.com/product/pci-cda/) can usually be used in its place.

The information on this page is provided for use by existing customers, however our ability to provide ongoing support is limited.

>Features

- Transfer rates up to 60 MB per second.
- 4 KByte FIFO
- Implements a high speed DMA channel between an external device and PCI bus computer
- EIA-644 LVDS compatible driver/receivers
- Customizable by a RAM based programmable gate array
- Synchronous protocol
- Clock timing from DMA interface, user device or both
- Device drivers (http://edt.com/faqs/) for Linux and Windows
- Single PCI Local Bus (http://edt.com/bus-specifications/) slot
- PMC version (http://edt.com/product/pmc-cd-60/) also available

>Description

The PCI CD-60 interface provides a high speed 16-bit parallel DMA channel between an external device and PCI Bus Computer running the Linux or Windows operating system. The device interface uses EIA-644 Low Voltage Differential Signals (LVDS) compatible driver/receivers connected to a RAM based programmable gate array and 4 KByte FIFOs. The PCI CD-60 uses Direct Virtual Memory Access (DVMA) and asynchronous I/O to achieve transfer rates to or from memory of up to 60 MB per second. The hardware protocol is synchronous. That is, all data and control signals are sampled with a clock transmitted along with the data and control signals. This clock may be generated by the DMA interface or the user device or both. All signals are differential using EIA-644 LVDS specifications. The PCI CD-60 includes a versatile, straightforward protocol but optional customer-specific protocols may be developed.

>Applications

- Telecom Receivers
- Simulation
- Imaging devices
- Scanners
- Plotters
- Device Control
- Research and development
- General Purpose Data Acquisition

>Software

Device drivers for Linux Windows are included with the PCI CD-60. The drivers provide access to the PCI CD-60 through standard and asynchronous read and write system calls. Continuous transfers are implemented with asynchronous I/O.

>Support

EDT provides several levels of customer support, from phone consultation to custom design of hardware, firmware, or software, at hourly rates. Technical support is also provided though the Technical Information (http://edt.com/support/) section of this web site.

> ()Specifications

PCI Bus compliance

PCI 2.1s
33Mhz
32 bits

Device interface

Protocol:

Synchronous streaming

Buffers:

4 KB FIFO for input 4 KB FIFO for output

Connectors:

AMP 787190-8 (mates with AMP 749621-8, backshell 749196-2)

Environmental

Temperature:

Operating: 10° to 40° C
Nonoperating:-20° to 60° C

Humidity:

Operating: 20% to 80% noncondensing @ 40° C
Nonoperating: 95% noncondensing @40° C

Physical

Single standard PCI Bus slot
Dimensions: 3.3″ x 5.78″ x 0.5″
Weight: 3.5 oz.

Power

1.2A at 5 volts (can operate in either a 3.3v or 5v slot)

Software

Device drivers for Sun Linux, Windows
Standard read/write system call support
Asynchronous I/O support for continuous transfers

>Ordering

To order, contact our sales department or your distributor (http://edt.com/sales/). Be sure to specify which cable will be needed (if any).

Related Products

(http://edt.com/product/pci-cda/)

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