CDDI PCI Adapters

The CDDI (Copper Distributed Data Interface) PCI Adapter provides dual-redundant 100 Mbps communication links with MLT-3 signalling over copper UTP media and is ideally suited to real-time data communication applications. These adapters use the AMD Supernet 3 FDDI Chipset as communication controller and offer dual attached (DAS) or single attached (SAS) I/O options. They feature VxWorks software drivers for certain platforms, as well as a wide range of compatible and qualified third party software drivers.

The adapter is available in air-cooled versions : commercial and ruggedised.

Architecture

The CDDI PCI Adapters use the AMD Supernet 3 chipset. This chipset offers advanced features such as Synchronous Bandwidth Allocation (SBA) and End Station Support (ESS). The adapter has an advanced ASIC onboard that performs buffer management and PCI interfacing, thereby achieving high throughput.

Features

- Dual-(DAS) or Single-(SAS) Attachment Station options available
- Optical Bypass Switch Control
- Fully software configurable

Applications

- Distributed real-time applications
- SCADA applications
- SAFENET applications

Availability in Other Formfactors

The CDDI PCI Adapters are also available in the PMC and PC104 Plus formfactors.

In the PMC formfactor, they are available in conduction-cooled (-40 C to +85 C) and air-cooled versions : ruggedised (-40 C to +85 C), industrial (-15 C to +75 C) and commercial (0 C to +55 C).

In the PC104 Plus formfactor, they are available in air-cooled versions : ruggedised (-40 C to +85 C), industrial (-15 C to +75 C) and commercial (0 C to +55 C).

CDDI PCI Adapter

CDDI PCI Adapter Specifications

Bus Interface	32-bit, 33/66 MHz PCI-bus Electrically and Mechanically complies to PCI Rev. 2.1
Network Interface	ANSI X3T9.5
LAN Controller	AMD Supernet 3
RAM	128 kBytes CMOS static
Flash EPROM	128 kBytes
I/O Addresses	Automatic assigned to the slot by PCI Rev. 2.1 Plug-and-Play
Interrupts	PCI INT A
DMA	Automatic depending on PCI slot
Power Requirement	+5 V at 1,45 A
Software Drivers	Various software drivers offered including for VxWorks, Linux, LynxOS, Solaris, DOS, OS/2, Windows (95, 98, NT, 2000, XP and 2003) operating systems as standard; others are costed options.
Supporting Software	Hardware Diagnostic Program for DOS
Special Optional Services	Synchronous Bandwidth Allocation (SBA) and End Station Support (ESS), Built-in Test (BIT), Network Time Protocol (NTP), Network Time Services (NTS).

Environmental Specifications

	Commercial	**Ruggedised**
Temperature - Operating - Storage	 0 C to +55 C -40 C to +85 C	 -15 C to +75 C -50 C to +85 C
Humidity	0% - 90%	0% - 95%
Shock	N/A	30 g peak for 11 ms
Vibration - Sine - Random	 2 g (peak) 10 Hz to 100 Hz 0,04 g²/Hz at 15 Hz to 2 kHz	 10 g (peak) 5 Hz to 2 kHz 0,1 g²/Hz at 15 Hz to 2 kHz

