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Find the *CCII CCII/CDDI/PMC/DAS/BP/CC* at our website: *Click HERE*

PMC CDDI Adapter

C^2I^2 Systems has developed a PMC CDDI Network Interface Card (NIC), which is ideally suited to embedded platforms. This NIC has been developed from SysKonnect's PCI CDDI NIC and as such features a wide range of compatible and qualified software drivers.

Seen from a physical point of view, a CDDI network consists of a dual-redundant copper media ring. Only one of the two rings is used during normal operation. The second ring merely serves as a back-up medium. Stations in the ring are classed as Class A or Class B stations. Class A stations connect directly to the ring while Class B stations connect via a concentrator.

Features

CDDI meets the increasing demands of sophisticated networks :

- High data transmission rate (100 Mbps), efficiency and cost-effectiveness make CDDI the optimum solution for real-time and multimedia networks, as well as corporate backbones
- Support of CDDI in departmental networks using low-cost copper media
- Up to 100 m between nodes
- Wide geographic range (50 km maximum circumference)
- Large number of supported nodes (up to 500 dual-attached) in the ring
- Deterministic and bandwidth-efficient timed token passing access method
- Fault-tolerant operation provides for ring reconfiguration in cases of problems such as media disruption or node failure
- Optimum data protection and system availability by supporting SFT III server mirroring with Mirrored Server Link (MSL) driver
- Synchronous Bandwidth Allocator (SBA)
- High-performance PCI data transfer
- Rugged Miniature Circular Connectors
- Bypass Switch Control
- Fully software configurable
- SMT Version 7.3

The PMC CDDI DAS NIC provides a Class A connection and integrates directly into the dual CDDI ring.

Applications

- Digital telephony
- SCADA applications
- Distributed real-time applications
- Vetronics applications

- Mission-critical applications
- SAFENET applications

PMC CDDI Adapter Specifications

<table>
<tr><td>Designation
CCII/CDDI/PMC/DAS/HR10/COM
CCII/CDDI/PMC/SAS/HR10/COM</td><td colspan="2">Connector
HR10
HR10</td><td>Grade
Commercial
Commercial</td><td>Attachment
Dual
Single</td></tr>
<tr><td>Bus Interface</td><td colspan="4">32-bit PCI-Bus electrical and CMC formfactor</td></tr>
<tr><td>Network Interface (Copper)</td><td colspan="4">ANSI TP-PMD (MLT-3) Rev 2.1</td></tr>
<tr><td>LAN Controller</td><td colspan="4">AMD Supernet 3</td></tr>
<tr><td>RAM</td><td colspan="4">128 kBytes CMOS static</td></tr>
<tr><td>Flash EPROM</td><td colspan="4">128 kBytes</td></tr>
<tr><td>I/O Addresses</td><td colspan="4">Automatic by PCI V2.1 Plug-and-Play assigned to the slot</td></tr>
<tr><td>Interrupts</td><td colspan="4">PCI INT A</td></tr>
<tr><td>DMA</td><td colspan="4">Automatic depending on PCI slot</td></tr>
<tr><td>Timer</td><td colspan="4">3 channels @ 6,25 MHz max.</td></tr>
<tr><td>Dimensions</td><td colspan="4">149 mm x 74 mm x 13,5 mm</td></tr>
<tr><td>MTBF</td><td colspan="4">Figures according to MIL-HDBK-217F, Parts Count Method :
Ground Mobile T_j = 65 C, T_a = 45 C 20 000 hrs
Naval, Sheltered T_j = 60 C, T_a = 40 C 28 000 hrs
Airborne, Inhabited Cargo T_j = 75 C, T_a = 55 C 21 000 hrs</td></tr>
<tr><td>Power Requirements</td><td colspan="4">< 1,45 A @ 5 V</td></tr>
<tr><td rowspan="4">Environmental Specifications</td><td>Temperature
Operating
Non-Operating</td><td colspan="2">Commercial
0 C to + 55 C
- 40 C to + 85 C</td><td>Industrial
- 15 C to + 75 C
- 50 C to + 85 C</td></tr>
<tr><td>Humidity</td><td colspan="3">0% to 95%</td></tr>
<tr><td>Shock</td><td colspan="3">30 g for 8 ms</td></tr>
<tr><td>Vibration</td><td colspan="3">Sine : 10 g (peak) 5 to 2 kHz
Random : 0,1 g^2/Hz at 5 to 2 kHz</td></tr>
<tr><td>Software Drivers</td><td colspan="4">• VxWorks
○ VxWorks V5.3.1 drivers
○ VxWorks STREAMS DLPI drivers
• DOS
○ Hardware dependent driver for DOS, UPPS
○ Hardware dependent driver for DOS, UPPS-Slim
○ DOS, WfW3.11 (NDIS 2)
○ DOS,Microsoft LAN Manager (NDIS 2)
○ DOS, IBMLAN Server 4.0 (NDIS 2)</td></tr>
</table>

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	• NetWare
	  ○ Novell Netware 3.11 (LAN Driver)
	  ○ Novell Netware 3.12 (LAN Driver)
	  ○ Novell Netware 4.1x (LAN Driver)
	  ○ Novell Netware 5.x (LAN Driver)
	  ○ Novell Netware 3.1x / 4.1x incl. FDDI_RAW (LAN Driver)
	  ○ Novell Netware 4.1x SFT III (MSL Driver)
	  ○ Novell ODI (MLID) for DOS Client
	• Windows
	  ○ Novell Client32 for DOS/Windows 3.1x
	  ○ Novell Client32 for Windows95, Windows NT
	  ○ Windows 95 (NDIS 3)
	  ○ Windows 95 OSR2 (NDIS 4 Miniport)
	  ○ Windows NT x86 (NDIS 3)
	  ○ Windows NT 4.0 x86 (NDIS 4 Miniport)
	  ○ SK-NET FDDI SNMP Extension Agent
	• OS/2
	  ○ Novell ODI for OS/2 Client
	  ○ OS/2, IBM LAN Server 4.0 (NDIS 2)
	• Unix
	  ○ AIX 4.1
	  ○ RS/6000 Supplemental Disk (Diag)
	  ○ SCO OpenServer 5.0
	  ○ SCO UnixWare 7
	  ○ UnixWare 2.1x
	  ○ SUN Solaris 2.5.1 / 2.6 / 2.7 (x86 Edition)
	  ○ Linux

Supporting Tools	• Remote Boot Software • CDDI SMT Diagnostic Program • Hardware Diagnostic Program for PPC, Windows NT 3.5.1 and above PP (NDIS 3) • Hardware Diagnostics Program for VxWorks supported host carrier cards

Options

- LynuxOS Drivers
- Conduction-Cooling
- CDDI Network Interface through PMC Connector

PMC FDDI Compliance Table

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