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► PMC CDDI Adapter

C²I² Systems has developed a PMC CDDI Network Interface Card (NIC), which is ideally suited to embedded platforms. This NIC has been developed from SysKconnect'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

Designation CCII/CDDI/PMC/DAS/HR10/COM CCII/CDDI/PMC/SAS/HR10/COM	Connector HR10 HR10	Grade Commercial Commercial	Attachment Dual Single
Bus Interface	32-bit PCI-Bus electrical and CMC formfactor		
Network Interface (Copper)	ANSI TP-PMD (MLT-3) Rev 2.1		
LAN Controller	AMD Supernet 3		
RAM	128 kBytes CMOS static		
Flash EPROM	128 kBytes		
I/O Addresses	Automatic by PCI V2.1 Plug-and-Play assigned to the slot		
Interrupts	PCI INT A		
DMA	Automatic depending on PCI slot		
Timer	3 channels @ 6,25 MHz max.		
Dimensions	149 mm x 74 mm x 13,5 mm		
MTBF	Figures according to MIL-HDBK-217F, Parts Count Method : Ground Mobile $T_j = 65\text{ C}, T_a = 45\text{ C}$ 20 000 hrs Naval, Sheltered $T_j = 60\text{ C}, T_a = 40\text{ C}$ 28 000 hrs Airborne, Inhabited Cargo $T_j = 75\text{ C}, T_a = 55\text{ C}$ 21 000 hrs		
Power Requirements	< 1,45 A @ 5 V		
Environmental Specifications	Temperature Operating Non-Operating	Commercial 0 C to + 55 C - 40 C to + 85 C	Industrial - 15 C to + 75 C - 50 C to + 85 C
	Humidity	0% to 95%	
	Shock	30 g for 8 ms	
	Vibration	Sine : 10 g (peak) 5 to 2 kHz Random : 0,1 g ² /Hz at 5 to 2 kHz	
Software Drivers	<ul style="list-style-type: none"> • VxWorks <ul style="list-style-type: none"> ○ VxWorks V5.3.1 drivers ○ VxWorks STREAMS DLPI drivers • DOS <ul style="list-style-type: none"> ○ 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) 		

	<ul style="list-style-type: none"> ● NetWare <ul style="list-style-type: none"> ○ 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 <ul style="list-style-type: none"> ○ 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 <ul style="list-style-type: none"> ○ Novell ODI for OS/2 Client ○ OS/2, IBM LAN Server 4.0 (NDIS 2) ● Unix <ul style="list-style-type: none"> ○ 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
<p>Supporting Tools</p>	<ul style="list-style-type: none"> ● 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

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

[PMC FDDI Compliance Table](#)

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