

► FDDI and CDDI PCI Adapters

The Fibre Distributed Data Interface (FDDI) standard provides a 100 Mbit/s dual-redundant local area network link with 4B/5B signalling over multimode fibre while the Copper Distributed Data Interface (CDDI) standard provides the same using MLT-3 signalling over Unshielded Twisted Pair (UTP) copper cabling.

The range of FDDI PCI Adapters was developed and manufactured by SysKconnect of Germany and consists of the SK-54xx PCI 32-bit adapters and SK-5844 PCI-X 64-bit adapter.

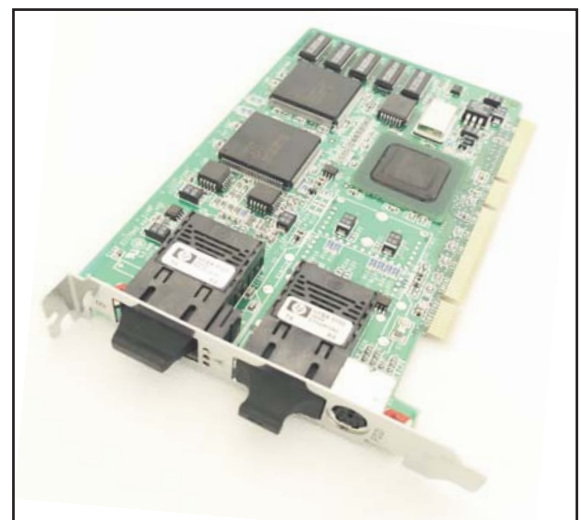
FDDI and CDDI PCI Adapters are available in the following range of industry standard compliant formfactors :

- PCI 32-bit (PCI Local Bus Specification Rev. 2.3)
- PCI 64-bit (PCI-X 1.0)

A range of FDDI and CDDI Adapters is also available in the PMC and PCI-104 formfactors.



FDDI PCI 32-bit Adapter : SK-5544



FDDI PCI 64-bit Adapter : SK-5844

Architecture

The AMD Supernet 3 chipset is used to provide 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

- SAFENET applications
- Distributed real-time applications
- Vetronics applications
- Mission-critical applications
- SCADA applications
- Instrumentation & Control (I&C) applications
- Server Farms

► FDDI and CDDI PCI Adapters

Physical Characteristics			
Bus Interface	32-bit, 33/66 MHz Electrically : PCI Rev. 2.1, 3,3 V and 5,0 V signalling		
I/O Addresses	Automatically assigned to the slot by PCI Rev. 2.1 Plug-and-Play		
Interrupts	PCI INT A		
Lan Controller	AMD Supernet 3		
Network Interface	FDDI : ANSI X3T12, ANSI X3.139 and ANSI X39.5 CDDI: ANSI X3T9.5		
Flash EPROM	128 kBytes		
I/O Options	FDDI : Multimode Fibre Media I/O CDDI: Unshielded Twisted Pair (UTP) Copper Media I/O		
Power Requirement	SAS : 5,0 V at 1,7 A typical 5,0 V at 2,6 A maximum DAS : 5,0 V at 2,6 A typical 5,0 V at 3,4 A maximum		
MTBF	Figures according to MIL-HDBK-217F, Parts Stress Method		
	Ground, Mobile	Tj = 65 C Ta = 45 C	20 000 hours
	Naval, Sheltered	Tj = 60 C Ta = 40 C	28 000 hours
	Airborne, Inhabited Cargo	Tj = 75 C Ta = 55 C	21 000 hours
Optical Output Power	Min.	Typ.	Max.
62.5 / 125 µm NA = 0,275 Fibre	BOL -19 dBm avg. EOL -20 dBm avg.	-16,8 dBm avg.	-14 dBm avg.
50 / 125 µm NA = 0,20 Fibre	BOL -22,5 dBm avg. EOL -23,5 dBm avg.	-20,3 dBm avg.	-14 dBm avg.
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 Diagnostics 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			
Grade	Commercial		
Temperature - Operating - Storage	+10 C to +50 C -20 C to +60 C		
Humidity	30% to 80%		
Shock	N/A		
Vibration - Sine - Random	2 g (peak) at 10 Hz to 100 Hz 0,04 g ² /Hz at 15 Hz to 2 kHz		

► **FDDI and CDDI PCI Adapters**

Physical Characteristics						
Formfactor		Dimensions	Mass			
PCI (PCI Local Bus Specification Rev. 2.1)	FDDI	149,00 mm x 74,00 mm (+0,0 / -0,5 mm), conforming to CMC height envelope	105 g +/- 10 g			
	CDDI		125 g +/- 10 g			
PCI-X (PCI -X 1.0)	FDDI	175,26 mm x 106,68 mm x 15,24 mm (+0,0 / -0,5 mm)	140 g +/- 10 g			
Part Designations						
CCII Part Number	SK Part Number	Formfactor	Grade	Attachment	Media	Connector
CCII/FDDI/PCI32/DAS/SC/COM	SK-5544	32-bit PCI	Commercial	Dual	Fibre	SC
CCII/FDDI/PCI32/SAS/SC/COM	SK-5543	32-bit PCI	Commercial	Single	Fibre	SC
CCII/CDDI/PCI32/DAS/RJ45/COM	SK-5522	32-bit PCI	Commercial	Dual	Copper	RJ-45
CCII/CDDI/PCI32/SAS/RJ45/COM	SK-5521	32-bit PCI	Commercial	Single	Copper	RJ-45
CCII/FDDI/PCI64/DAS/SC/COM	SK-5844	64-bit PCI	Commercial	Dual	Fibre	SC