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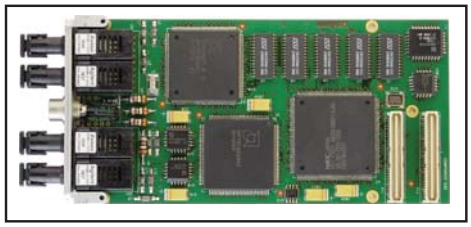
Find the *CCII CCII/CDDI/PMC/DAS/BP/CC* at our website: *Click HERE*

# FDDI and CDDI Adapters

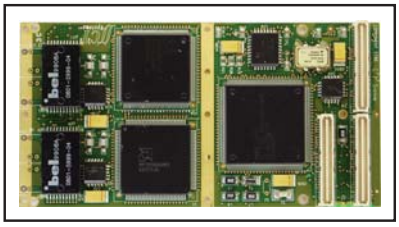
FDDI (Fibre Distributed Data Interface) are dual redundant 100 Mbps links with 4B/5B signalling over multimode fibre media or MLT-3 signalling over copper UTP media (CDDI (Copper Distributed Data Interface)).

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

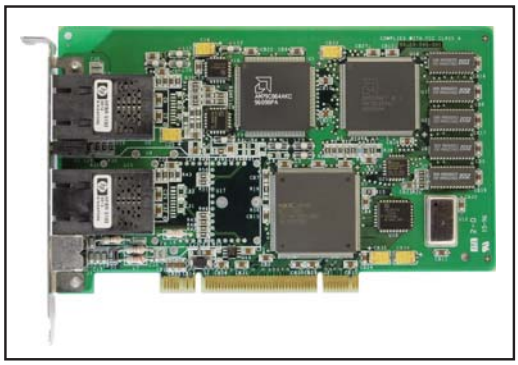
- PMC
  - Air-coolded PMC adapter with frontpanel I/O (IEEE Std 1386.1-2001)
  - Conduction-Cooled PMC (CCPMC) adapter with backplane I/O (ANSI/VITA 20-2001)
  - Conduction-Cooled PMC adapter with frontpanel I/O (requires modification to host carrier)
- PCI-104 (PCI-104 v2.0)
- PCI (PCI Local Bus Specification Rev. 2.3)



FDDI PMC



CDDI CCPMC



FDDI PCI

## Architecture

The FDDI and CDDI 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

- SAFENET applications
- Distributed real-time applications
- Vetronics applications
- Mission-critical applications
- SCADA applications




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# FDDI and CDDI Adapters

## FDDI and CDDI Adapters Specifications

| | |
|---|---|
| **Bus Interface** | 32-bit, 33/66 MHz<br>Electrically : PCI Rev. 2.1, 3,3 V and 5,0 V signalling |
| **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 |
| **LAN Controller** | AMD Supernet 3 |
| **Network Interface** | FDDI : ANSI X3T12, ANSI X3.139 and ANSI X39.5<br>CDDI : ANSI X3T9.5 |
| **Flash EPROM** | 128 kBytes |
| **I/O Options** | FDDI : Frontpanel or rear facing I/O<br>CDDI : Frontpanel and rear connector I/O options with various rear connector PMC Jn4 I/O pin assignments. Conduction-cooled version has rear connector I/O only. |
| **Power Requirement** | 5,0 V at 1,45 A |
| **MTBF** | Figures according to MIL-HDBK-217F, Parts Stress Method :<br>Ground, Mobile $T_j$ = 65 C $T_a$ = 45 C 20 000 hrs<br>Naval, Sheltered $T_j$ = 60 C $T_a$ = 40 C 28 000 hrs<br>Airborne, Inhabited Cargo $T_j$ = 75 C $T_a$ = 55 C 21 000 hrs |
| **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). |

## Physical Characteristics

| Formfactor | | Dimensions | Weight |
|---|---|---|---|
| PMC (IEEE Std 1386.1-2001) | **FDDI** | 149,00 mm x 74,00 mm, conforming to CMC height envelope | 105 g ± 10 g |
| | **CDDI** | | 125 g ± 10 g |
| CCPMC (ANSI/VITA 20-2001) | **FDDI** | 143,65 mm x 74,00 mm, conforming to VITA 20 height envelope | 105 g ± 10 g |
| | **CDDI** | | 125 g ± 10 g |
| PCI-104 (PCI-104 v1.0) | **FDDI** | 95,89 mm x 90,17 mm x 23,80 mm | TBD |
| | **CDDI** | | TBD |
| PCI (PCI Local Bus Specification Rev. 2.1) | **FDDI** | TBD | TBD |
| | **CDDI** | | TBD |

## Environmental Specifications

| | Commercial | Industrial | Ruggedised/Conduction-Cooled |
|---|---|---|---|
| **Temperature** | | | |
| - Operating | 0 C to +55 C | -15 C to +75 C | -40 C to + 85 C |
| - Storage | -40 C to +85 C | -50 C to +85 C | -60 C to +125 C |
| **Humidity** | 0% - 90% | 0% - 95% | 0% - 95% |
| **Shock** | N/A | 30 g peak for 11 ms | 40 g peak for 11 ms |
| **Vibration** | | | |
| - Sine | 2 g (peak) 10 Hz to 100 Hz | 10 g (peak) 5 Hz to 2 kHz | 10 g (peak) 5 Hz to 2 kHz |
| - Random | 0,04 g²/Hz at 15 Hz to 2 kHz | 0,1 g²/Hz at 15 Hz to 2 kHz | 0,1 g²/Hz at 15 Hz to 2 kHz |




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## FDDI and CDDI Adapters

### Part Designations

| Part Number | Formfactor | Grade | Attachment | Media | Connector |
|---|---|---|---|---|---|
| CCII/FDDI/PMC/DAS/ST/COM | PMC | Commercial | Dual | Fibre | ST |
| CCII/FDDI/PMC/DAS/ST/IND | PMC | Industrial | Dual | Fibre | ST |
| CCII/FDDI/PMC/DAS/ST/RGD | PMC | Ruggedised | Dual | Fibre | ST |
| CCII/FDDI/PMC/DAS/ST/CC | CCPMC | Conduction-Cooled | Dual | Fibre | ST |
| CCII/CDDI/PMC/DAS/HR10/COM | PMC | Commercial | Dual | Copper | HR10 |
| CCII/CDDI/PMC/DAS/HR10/IND | PMC | Industrial | Dual | Copper | HR10 |
| CCII/CDDI/PMC/DAS/HR10/RGD | PMC | Ruggedised | Dual | Copper | HR10 |
| CCII/CDDI/PMC/DAS/BP/CC | CCPMC | Conduction-Cooled | Dual | Copper | Backplane I/O |
| CCII/FDDI/PC104/DAS/ST/COM | PCI-104 | Commercial | Dual | Fibre | ST |
| CCII/FDDI/PC104/DAS/ST/IND | PCI-104 | Industrial | Dual | Fibre | ST |
| CCII/FDDI/PC104/DAS/ST/RGD | PCI-104 | Ruggedised | Dual | Fibre | ST |
| CCII/FDDI/PC104/DAS/RJ45/COM | PCI-104 | Commercial | Dual | Copper | RJ-45 |
| CCII/FDDI/PC104/DAS/RJ45/IND | PCI-104 | Industrial | Dual | Copper | RJ-45 |
| CCII/FDDI/PC104/DAS/RJ45/RGD | PCI-104 | Ruggedised | Dual | Copper | RJ-45 |
| **SysKonnect Part Numbers** | | | | | |
| SK-5544, FDDI-LP | 32-bit PCI | Commercial | Dual | Fibre | SC |
| SK-5543, FDDI-LP | 32-bit PCI | Commercial | Single | Fibre | SC |
| SK-5522, FDDI-UP | 32-bit PCI | Commercial | Dual | Copper | RJ-45 |
| SK-5521, FDDI-UP | 32-bit PCI | Commercial | Single | Copper | RJ-45 |
| SK-5844, FDDI-LP | 64-bit PCI | Commercial | Dual | Fibre | SC |
| SK-5843, FDDI-LP | 64-bit PCI | Commercial | Single | Fibre | SC |
| SK-5822, FDDI-UP | 64-bit PCI | Commercial | Dual | Copper | RJ-45 |
| SK-5821, FDDI-UP | 64-bit PCI | Commercial | Single | Copper | RJ-45 |




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