

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

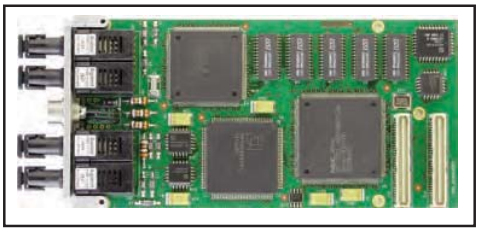
Find the *CCII CCII/CDDI/PMC/DAS/BP/CC* at our website: *Click HERE*

# FDDI and CDDI Adapters

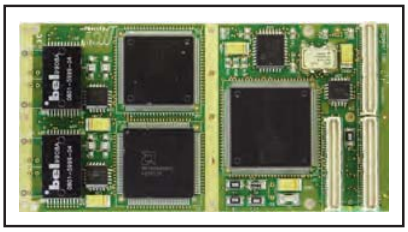
The Fibre Distributed Data Interface (FDDI) standard provides a 100 Mbit/s dual redundant network link with 4B/5B signalling over multimode fibre while the Copper Distributed Data Interface (CDDI) standard provides the same using MLT-3 signalling over Unshielded Twisted Pair (UTP) copper cabling.

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

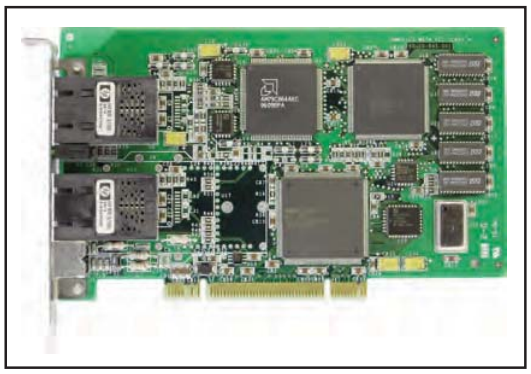
- Air-coolded FDDI and CDDI PMC adapter with front-panel I/O (IEEE Std 1386.1-2001)
- Conduction-Cooled CDDI PMC (CCPMC) adapter with rear panel I/O (ANSI/VITA 20-2001)
- Conduction-Cooled FDDI PMC adapter with front panel I/O (requires modification to host carrier)
- PCI-104 (PCI-104 v2.0)
- PCI (PCI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



FDDI PMC



CDDI CCPMC



FDDI PCI

## Architecture

The 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

FDDI & CDDI

Board-Level


Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

## FDDI and CDDI Adapters

| | |
|---|---|
| **Bus Interface** | 32 bit, 33 / 66 MHz<br>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<br>CDDI : ANSI X3T9.5 |
| **Flash EPROM** | 128 kBytes |
| **I/O Options** | FDDI : Front-panel or rear facing I/O<br>CDDI : Front-panel 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 |

| | | | |
|---|---|---|---|
| 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 / 125um NA = 0.275 Fiber | BOL | -19 dBm avg. | -16.8 dBm avg. | -14 dBm avg. |
| | EOL | -20 dBm avg. | | |
| 50 / 125um NA = 0.20 Fiber | BOL | -22.5 dBm avg. | -20.3 dBm avg. | -14 dBm avg. |
| | EOL | -23.5 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 | Industrial | Ruggedised |
|---|---|---|---|
| Temperature<br>- Operating<br>- Storage | <br>0 C to +55 C<br>-40 C to +85 C | <br>-15 C to +75 C<br>-50 C to +85 C | <br>-40 C to + 85 C<br>-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<br>- Sine<br>- Random | <br>2 g (peak) at 10 Hz to 100 Hz<br>0,04 g²/Hz at 15 Hz to 2 kHz | <br>10 g (peak) at 5 Hz to 2 kHz<br>0,1 g²/Hz at 15 Hz to 2 kHz | <br>10 g (peak) at 5 Hz to 2 kHz<br>0,1 g²/Hz at 15 Hz to 2 kHz |




Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

# FDDI and CDDI Adapters

## Physical Characteristics

| Formfactor | | Dimensions | Mass |
|---|---|---|---|
| **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 | 90 g +/- 10 g |
| | CDDI | | 110 g +/- 10 g |
| **PCI (PCI Local Bus Specification Rev. 2.1)** | FDDI | 175,26 mm x 106,68 mm x 15,24 mm | 140 g +/- 10 g |
| | CDDI | | 160 g +/- 10 g |

## 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/FDDI/PMC/DAS/SC/COM | PMC | Commercial | Dual | Fibre | SC |
| CCII/FDDI/PMC/DAS/SC/IND | PMC | Industrial | Dual | Fibre | SC |
| CCII/FDDI/PMC/DAS/SC/RGD | PMC | Ruggedised | Dual | Fibre | SC |
| | | | | | |
| 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 | Rear Connector Pn4 |
| | | | | | |
| CCII/FDDI/PC104/DAS/ST/COM | PC-104 | Commercial | Dual | Fibre | ST |
| CCII/FDDI/PC104/DAS/ST/IND | PC-104 | Industrial | Dual | Fibre | ST |
| CCII/FDDI/PC104/DAS/ST/RGD | PC-104 | Ruggedised | Dual | Fibre | ST |
| | | | | | |
| CCII/FDDI/PC104/DAS/RJ45/COM | PC-104 | Commercial | Dual | Copper | RJ-45 |
| CCII/FDDI/PC104/DAS/RJ45/IND | PC-104 | Industrial | Dual | Copper | RJ-45 |
| CCII/FDDI/PC104/DAS/RJ45/RGD | PC-104 | Ruggedised | Dual | Copper | RJ-45 |
| **SysKonnect Part Numbers** | | | | | |
| CCII/FDDI/PCI/DAS/SC/COM | 32-bit PCI | Commercial | Dual | Fibre | SC |
| CCII/FDDI/PCI/SAS/SC/COM | 32-bit PCI | Commercial | Single | Fibre | SC |
| CCII/CDDI/PCI/DAS/RJ45/COM | 32-bit PCI | Commercial | Dual | Copper | RJ-45 |
| CCII/CDDI/PCI/SAS/RJ45/COM | 32-bit PCI | Commercial | Single | Copper | RJ-45 |





Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP