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 *Ribbon / Performance Technologies CPC396* at our website: *Click HERE*

PERFORMANCE TECHNOLOGIES

IPnexus™
Embedded Packet Products

CPC395 Dual T3/H.110 TDM Circuit Switch



The desire for density and high performance in Next-Generation telecom and IP telephony systems continues to grow at a rapid pace. The CPC395 Dual T3/H.110 TDM Circuit Switch, part of Performance Technologies' IPnexus™ product family, meets these needs by providing telecom equipment manufacturers and integrators with full switching of two DS-3 communications interfaces (1344 DS-0s) on one single or two independent H.110 buses.

The CPC395 has been specifically designed to be the ideal adapter for IP telephony applications requiring the manipulation of large numbers of voice and data circuits from the telco network to the H.110 bus. The CPC395 helps designers of carrier-grade VoIP, VoATM, VoDSL media gateways, wireless infrastructure equipment, and other voice/data devices get to market quicker and more profitably.

The PICMG 2.16 compliant CPC395 is an adaptable platform designed with an onboard MPC8260 PowerQUICII RISC communications processor. Combined with an embedded Linux operating system and dual onboard Ethernet, the CPC395 operates as a fully programmable communications subsystem capable of intra-chassis communication using the PCI bus, or Ethernet.

Features/Benefits

Carrier-Grade Dual DS-3 Communications Interface for 6U CompactPCI Systems	Ideal for high density voice and data applications for IP telephony systems
Motorola MPC8260 PowerQUICC®II Processor	Integrated communications functionality managed by an MPC603e PowerPC core
PICMG 2.16 Compliant	Capable of operating in conventional CompactPCI chassis or packet switched backplane configurations
Dual 10/100 Ethernet	Provides redundant IP connectivity for high reliability carrier-grade solutions
Dual H.110 Buses	Up to 1344 time slots can be switched between one or both T3s, and one single or two independent H.110 buses

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

NexusWare Development Environment	Embedded Linux OS manages all onboard functions and offers an open API for development
128MB Dedicated Processor DRAM Memory	Handles extensive onboard traffic and protocol requirements
Hot Swappable	Complies with the latest PICMG Specification
Rear Panel I/O with Passive Transition Module	Passive transition module facilitates hot swap and eliminates failure points

Telecom Hardware Features

The architecture of the CPC395 capitalizes on the Motorola MPC8260 PowerQUICCII Processor. The advanced feature set of the MPC8260 allows for superior handling of two fully channelized T3 spans (1344 DS-0s) as an entire stand-alone subsystem.

In addition, the CPC395 offers two fully-channelized T1/E1/J1 ports. These ports can be used for various applications such as signaling or system management over a WAN connection.

The CPC395 supports complete DS-0 to DS-3 multiplexing. It can switch 1344 DS-0 channels (2688 time slots) to a single H.110 bus (J4) or it can be used to switch the 672 time slots of each T3 link to a dedicated H.110 channel. Supporting the ECTF H.110 specification, each T3 span can link to either the standard J4 or proprietary J3 connector.

The CPC395 complies fully to the latest PICMG 2.1 Hot Swap specification, enabling trouble-free hot insertion and extraction of modules, a critical requirement in building a carrier-grade system.

Other features of the CPC395 include 128MB of DRAM allowing the CPC395 to execute protocols and manage extreme DS-0 density directly onboard. It also provides a monitor port and console port for upgrades and management.

Extensive Software Support

Running the Linux-based NexusWare development environment, the CPC395 is a complete, stand-alone TDM switch that may be managed via the cPCI bus, console port or redundant out-of-band Ethernet ports via SNMP or TCP/IP based API.

It includes client and server support for TFTP system upgrades, BootP and DHCP, as well as local (CPCI bus) and remote APIs for Solaris, Linux, and WindowsNT.

Specifications:

Interface	2 T3 Ports with 2432 time slots switchable between local and 2 ECTF H.110 buses 2 DS-3 (1344 time slots) switchable to/from one H.110 bus 56 T1 Framing Channels (28 per T3) 2 10/100 Ethernet ports
Processor	Motorola MPC8260 PowerQUICC®II (MPC603e core) 64 bit data and 32 bit address bus
Memory	128MB Dedicated DRAM 16MB Flash PROM
Compliance	CPCI Revision 2.1, including all PCI required configuration registers and protocols. PICMG 2.0 R 3.0, 5 CT bus, ECTF H.110, PICMG 2.1 Hot Swap PICMG 2.16 CompactPCI Packet Switched Backplane
Physical Interface	CPCI 32/64 bit/33MHz Interface Rear Panel Pinout via J3 and J4 Connectors Dual Ethernet 10/100TX Dual Serial Management Controllers

	Console Serial Port (RJ-11) Front Panel LEDs for Link Activity, System Status and Fault Indication Rear Panel I/O for two T1 Monitor Ports
PSTN Interfaces	Dual T3 LIUs and framers with support for M13 and C-bit parity Framing Formats B3ZS/HDB3 Encoding and T3 Alarm Indication Signal (AIS) with Remote Alarm Indication (RAI)
Framing Protocols	AMI/B8ZS, D-4, ESF, DS-1, PRI, Direct DS-3 to DS-0 Conversion
Embedded Linux OS	T1/T3 Framer Management Dual H.110 CT Bus Switching Driver Flash File System Dual Console Line Interfaces In-system Firmware Upgrade Capability BootP Client/Server DHCP Client/Server TFTP Client/Server
Management	SNMPv1 with support for MIB II (RFC1213) DS-1 MIB (RFC2495) DS-3 MIB (RFC2496) PTI Enterprise MIB for extended monitoring configuration and H.110 circuit setup Local cPCI based API Remote TCP/IP based API with support for Windows NT, Solaris and Linux
Agency Certifications	FCC Class A, UL 1950, CE (pending) NEBS Level 3 friendly
MTBF	> 200,000 power-on hours (POH)
Power	12.94 watts maximum (4.0 A @ +3.3 V)
Dimenstions	6U Eurocard form factor
Temperature	Operating: 0° to 50° C (32° to 122° F) Non-operating: –20° to 80° C (–4° to 176° F)

Ordering Information

- **PT-CPC395-11353**
  Dual T3 TDM Circuit Switch, Dual H.110
- **PT-CPC395-11354**
  Dual T3 TDM Circuit Switch, Single H.110
- **PT-CPC395-11354**
  Dual T3 TDM Circuit Switch, Single H.110, Circuit Switch Software
- **PT-CPC395-11218**
  Line Interface Module w/Midplane Ethernet
- **PT-CPC395-11219**
  Line Interface Module w/Rear Ethernet
- PT-CPC395-11165
  Dual T3 TDM Circuit Switch with Rear Panel Line Interface Module (LIM)

LIMs provide Dual DS-3X connections with Protection Circuitry, Dual 10/100TX Ethernet, and Dual T1 monitor ports

Contact Performance Technologies for other configurations

©2001 Performance Technologies, Inc. All rights reserved

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