

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.

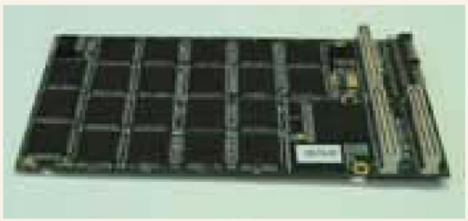
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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

Find the *Mapletree Networks MTN4096* at our website: *Click HERE*

MAPLETREE NETWORKS®



PMC Modules

View MTN4000Series Datasheets

The MTN4000 Series product line is a family of PCI Mezzanine Card (PMC)-based module level products, offering a range of densities and features to meet every application. Every MTN4000 Series product offers a highly efficient processing system in a standard form-factor, a combination that provides quick time-to-market with immediate feature differentiation. The initial module in the product line is the MTN4096, which offers 96 universal ports in a single card. The MTN4100 is scaleable from 12-120 ports in T1 and E1 increments. The MTN4200 scales from 120 to 240 simultaneous ports.

All of the CPCI PMC mezzanine modules in the MTN4000 Series are built using the UniPorte Architecture, which enables true universal port functionality. All of the PMC modules in the MTN4000 Series are built using the UniPorte Architecture, which enables true universal port functionality.

The MTN4000 Series features:

- Multiple standard Interfaces
- Toll Quality Voice
- Complete processing solution
- High Density
- Flexible UniPorte Architecture

Applications

The universal port architecture of the MTN4000 Series, combined with the available high densities, makes the MTN4000 product line ideal for access system and gateway system applications.

Access Systems
The multifunction attributes of the MTN4000 Series provide network convergence at the edge of the network, allowing it to operate in different applications and making it the perfect Voice over IP solution..

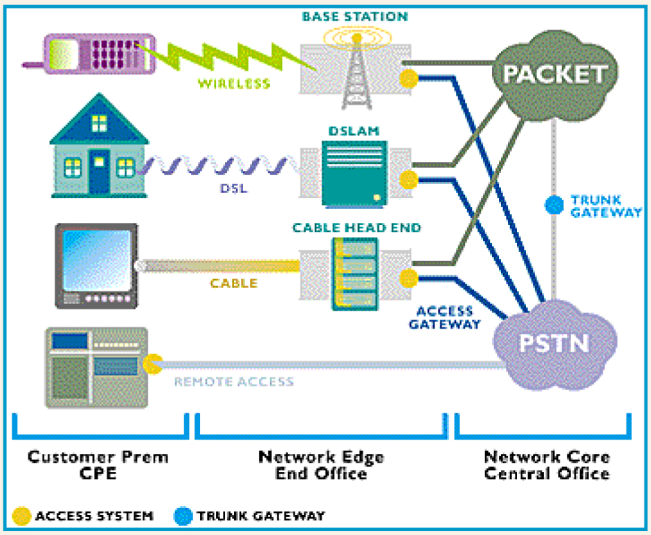
Gateway Systems
High densities mean that 4 T1 circuits can be processed on a single module. Multiple MTN4000 Series modules can be placed on one card, providing enough capacity to process up to 240 channels on a single CompactPCI carrier card. By integrating Mapletree's technology on the carrier card itself, the capacity can be increased to over 300 ports on a single blade.

Comprehensive Real Time Management
The host system has the ability in real time to send control commands to, or retrieve call data from, any of the ports on the adapter with no interruption to calls in process. This means that the building blocks are in place for a Network Management Application to implement any level of management

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

desired.

Network Applications *The MTN4000 Series is a very versatile piece of equipment. Applications are marked with yellow and blue circles.*



UniPorte Architecture

The UniPorte Architecture is a software-based processing system that can recognize and process any type of subscriber call on a call-by-call basis. Supported call types include:

- Voice over Internet Protocol (VoIP)
- Voice over Digital Subscriber Loop (VoDSL)
- Voice over ATM (VTOA)
- Wireless
- Data (modem and ISDN)
- Fax over Internet Protocol (FoIP)
- Analog Fax
- High Bandwidth

UniPorte-based solutions include benefits not found in other processing boards:

- **True port-level granularity:** Every port in a UniPorte-enabled product is capable of running any application, independently of the other ports in the session.
- **Future Proof Design:** UniPorte has a soft architecture, with all functions implemented through software. New features are added by a simple software download, with no hardware changes required.
- **Cross-platform functionality:** Every Mapletree product runs the same UniPorte Architecture. Once APIs and host system interfaces are written, they are compatible with any Mapletree product, from mezzanine modules to PCI/cPCI boards, to reference designs.

	Base Port Density	Maximum Port Density	Network Connections	Mezzanine Type	Call Types
MTN4096	24	96	MII, PCI, H.100	PMC	Universal Port
MTN4100	12	120	RMII, PCI, H.100	PTMC	Universal Port
MTN4200	120	240	RMII, PCI, H.110/CT-Bus	PTMC	Voice/Fax

wood Park South, Norwood, MA 02062 USA Tel: 781-751-2400 Fax: (781) 751-2470

Privacy Statement

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

Features	Comments and Description
Software Architecture	Complete universal port implementation supporting voice, fax, data
Host Interface	PCI Bus Mastering or Ethernet
Application Programming Interface	Operating system-independent messaging interface based on managed objects
Form Factor	IEEE 1386 CMC with PTMC Configuration 2 Pinout
Mechanical and Electrical	Dimensions: 74mm x 149mm Operating Voltage: 3.3V Signaling Voltage: 3.3V Power Dissipation: 8.0W Operating Temperature: 0-70°C ambient
Port Density	MTN4096: 24 to 96 ports MTN4100: 12 to 120 ports in 3 port increments MTN4200: 120 to 240 ports
Bus and Network Interfaces	Ethernet 10/100Mb RMII H.1xx compatible Local TDM Interface PCI 2.1
Voice Processing, Telephony	G.711codecμ-law and A-law PCM G.729A codec G.723.1 codec, 5.3 and 6.3kbps AMR Voice Activity Detection Silence Suppression: G.729B, G.723.1 A, proprietary for G.711 Comfort Noise Generation Voice Messaging: Playout & Record compliant with TAPI/WAV formats Companding μ-law (North America) and A-law (International) Packet Fill Time: 20ms to 200 ms RFC2833 tone events and payload
Echo Cancellation	G.168 compliant with double talk detection Configurable echo delay path up to 128ms
Tone Processing	DTMF Detection and Generation MF R1 R2 Detection Generation Custom Tone Generation CNG Detection and Generation For more information on
Voice over IP Processing	RTP:Audio and Tone Events RTCP: Sender and Receiver Reports Mac/UDP/IP Encapsulation: Unicast and Multicast Ethernet Framing: IEEE 802.3 and 802.1P/Q VLAN Support
Voice over ATM Processing	ITU-T I.363.2 AAL2 CPS
Group 3 Fax Processing	ITU-T V.17,V.27,V.27ter,V.29 ITU-T T.30 Fax Protocol Fax Class 1 and 2/2.0
Fax over IP Processing	ITU-T T.38 Internet Fax Protocol Proprietary Spoofing and Stalling Techniques UDP/IP Encapsulation: Unicast and Multicast Ethernet Framing: IEEE 802.3 and 802.1P/Q VLAN Support Fax bypass with auto CED and CNG detection for transparent modes
IP Management Protocols	Address Resolution Protocol (ARP) Internet Control Messaging Protocol (ICMP)
Modem Processing	ITU-T V.92,V.90, K.56 Flex,V.34,V.34bis,V.32,V.32bis,V.22,V.22bis, V.23,V.21, Bell 102 and 212 AT Command Support
ISDN Processing	HDLC: Detection, Framing/De-Framing V.110 Rate Adapation
Wireless Data	PIAFS 2.0 and 2.1
Packet Data	Point To Point Protocol over Ethernet (PPPoE)

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