



Low Cost, Feature-Rich 1RU T1/E1 Router

Introduction

GDC's PacketMATE 1100 is a reliable and versatile low cost rackmount router with support for sync serial, T1/E1 and ethernet. It supports up to two T1/E1 or sync serial ports, and provides many powerful features including NAT firewall, QoS, VPN, VRRP, dynamic routing, line bonding, peer-to-peer traffic control, CALEA intercepts, and more.

The PacketMATE 1100 includes a fanless 266 MHz AMD Geode processor, 128 MB memory, two 10/100 ethernet ports, two Mini expansion slots, and one USB expansion bus. The PM-1100 can be bundled with up to two synchronous serial ports or up to two T1/E1 ports. It is also designed to support add-on interfaces for ethernet, ISDN (BRI), FXO/FXS, or dial-up modem.

PM-1100 includes modular support for WAN protocols including PPP, Cisco HDLC and frame relay. Its real-time port status and performance monitoring features help to simplify troubleshooting for LAN and WAN connections.

Intended Use

PM-1100 is part of GDC's line of high performance low cost routers. It is designed for use in branch offices, wireless POPs, and other small-scale routing applications. The extensive feature set is ideal for networking applications requiring wirespeed performance in an affordable rackmount package with advanced features. PM-1100 offers wire-speed performance and solid reliability in a durable rackmount chassis with no cooling fans.

The PM-1100 can replace Cisco 1600, 1700 and 1800 series routers, and provides a low-cost solution for entry level applications that require support for virtual private networks (VPNs) and quality of service (QoS).

Feature Highlights

- Low cost T1/E1 router
- Space saving 1RU rackmount chassis
- Replaces Cisco Models 1600, 1700 and 1800
- Two onboard 10/100 ethernet ports
- Five expansion bays
- Supports completely fanless operation right out of the box.
- Extended temperature option for applications that require -10 to +65 deg C.
- Lawful intercept including CALEA
- Routes two T1/E1 ports at wire speed
- Routes 1 Mpps with CPU upgrade
- VoIP gateway and SoftPBX
- PowerCode™ OSS ready
- Runs on LINUX™ OS
- 31-day performance guarantee;
- 1 year warranty on parts and labor;
- Free 24/7 support for 1 year
- Free software upgrades

Front/Rear Panel Features

- Power LED shows power is on and supplying the unit.
- DC Power Connector provides power to the unit.
- 10/100 ethernet ports allow flexible LAN connectivity.
- Optional sync serial ports support V.35, X.21, RS449 and RS232/422.
- Add-on T1/E1 WAN Ports for scalable deployment.
- Console port set up via modem or laptop.
- Add-on 10/100 Ethernet ports using one of the T1/E1 card bays.

Physical Specifications

Hardware

Chassis: Aluminum 1U 19" rackmount
Processor: 266 MHz AMD Geode
Memory: 128 MB SDRAM
Storage: Fixed flash disk
Network Ports: Two 10/100 ethernet
Management Port: Serial console

Expansion Interface

Two 32-bit 33 MHz Mini expansion slots
One USB 1.1 bus

Dimensions

Height: 1.75 inches (44 mm)
Width: 19 inches (483 mm)
Depth: 7.25 inches (184 mm)
Weight: 13 lbs. (5.9 kg)
Shipping Weight: 2.4 lbs. (1.1 kg)

Electrical Specifications

Power Supply Design: External AC-DC adapter
AC Mains: 100 - 240 VAC, 50/60 Hz
DC Output: 5 VDC at 2.5 amps
Power Output: 12.5 W

Options

LAN Card Options:
1-port 10/100 ethernet

WAN Card Options:
1 or 2 sync serial ports
1 or 2 T1/E1 ports
1-port basic rate ISDN (BRI)
1-port 56 K modem

Software Features

Linux -based OS
High-performance kernel
Scalable platform
Menu-driven configuration
PowerCode BMU function
VoIP gateway and SoftPBX
Web caching
Web filtering with Netsweeper
Intrusion detection and prevention
On-line and off-line upgrades
Local and remote logging
Real-time monitoring
Quality of Service (QoS)
Bandwidth limiting
Packet filtering
Port forwarding
Packet processing by PVC
Peer-to-peer traffic control
System scheduler
PPP, Cisco HDLC, and frame relay
MLPPP and MLFR
PPPoE and PPPoA client and server
ATM and IMA
CEF-compatible bonder
RIP and OSPF dynamic routing
SNMP and NetFlow accounting
NAT firewall (1:1 and 1:many)
NTP clock synchronization
T1/E1 drop and insert
LAN and WAN bridging
Concurrent bridging and routing
Secure telnet (ssh v.2)
L2TP tunneling (LNS and LAC)
GRE, IPsec and CIPE tunneling
Remote RADIUS
TACACS+
DHCP client and server
IPsec and SSL VPNs
VRRP router failover
Lawful intercept
VLAN tagging
IPv6



Front Panel



Rear Panel