General DataComm
Best Connections in the Business

PacketMATE 1310

High Speed Routing for Data/Voice Networks

Introduction

GDC's PacketMATE 1310 (PM-1310) is a reliable, feature-rich router router is designed for outdoor enclosures and other extended temperature applications that require an operating temperature range from -20 deg. to 70 deg. C. The flexible chassis design makes installation easy in desk-top, wall-mount, or rack-mount environments.

The PM-1310 provides two expansion slots in a compact steel chassis that includes a fanless processor, high-speed DDR memory, dual 10/100 ethernet, and flash storage. With add-on network cards, the PM-1310 can route multiple IP network connections including fractional or full T1/E1, 56/64K DDS, basic rate ISDN (BRI), and 56K dial-up.

The PM-1310 includes modular driver support for WAN protocols including PPP, Cisco HDLC, frame relay and ATM. Real-time port status and performance monitoring simplifies troubleshooting for LAN and WAN connections.

The PM-1310 offers a wide range of software features including NAT firewall, interface bonder, bridging, QoS, VPN, dynamic routing, peer-topeer traffic control, lawful intercept, VoIP gateway, and more.

Intended Use

The PacketMATE 1310 is part of GDC's line of high performance low cost routers. The PM-1310 is ideal for small-scale routing applications including branch offices and outdoor POPs. It offers wire-speed performance and unwavering reliability in a small flexible package. The advanced capabilities of the PM-1310 make it an excellent choice for a wide range of business, service provider, and military routing applications. The PM1310 can replace Cisco 1700, 1800, 2600 and 2800 routers, and is a great router for VPN and QoS applications that require wire-speed performance.

Feature Highlights

- Extended temperature operation from -20 to +70 deg C.
- Small footprint with versatile mounting options: desktop, wall-mount, or rackmount installation
- Replaces Cisco 1700, 1800, 2600 and 2800
- Onboard dual 10/100 ethernet
- Routes eight T1 or E1 ports at wire speed
- Fanless CPU minimizes power consumption and cooling requirements.
- Lawful intercept including CALEA
- VoIP gateway and SoftPBX
- PowerCode(TM) OSS ready
- Runs on LINUX(TM) OS
- 31-day performance guarantee;
  1 year warranty on parts and labor;
  Free 24/7 support for 1 year
- Free software upgrades

Front and Rear Panel Features

- Two 10/100 ethernet ports for easy connection to most LANs.
- Console port to configure the router.
- Power switch on the back panel for added security.
- Two expansion slots for add-on network cards.
- Dedicated card and power supply fans for continuous cooling.

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Physical Specifications

Hardware

Chassis: Steel 2U rackmount, wall-mount or desktop
Processor: 500 MHz AMD LX800
Memory: 256 MB SDRAM
Storage: Fixed flash disk
Network Ports: Dual 10/100 UTP
Management Port: Serial console

Performance

Linux OS
500,000+PPS base CPU
1,000,000+ PPS with CPU upgrade

Expansion Interface

Two 32-bit 33 MHz expansion slots

Dimensions (Desktop)

Height: 8.0 inches (203 mm
Width: 3.48 inches (88.4 mm
Depth: 10.0 inches (254 mm
Weight: 4 lbs. (1.8 kg)

Dimensions (Rack-mounted with brackets)

Height: 3.48 inches (88.4 mm)
Width: 19 inches (483 mm)
Depth: 10.0 inches (254 mm)
Weight: 4 lbs. (1.8 kg)

Electrical Specifications

Power Supply Design: Auto-ranging
AC Mains Voltage: 85 to 265 VAC
AC Mains Frequency: 47 to 63 Hz
Power Output: 70 W

Options

Memory Options: 512 MB or 1 GB
LAN Card Options: 1, 2, and 4-port gigabit ethernet
WAN Card Options:
- 1, 2, 4 and 8-port serial, T1 or E1
- 1-port basic rate ISDN (BRI)
- 1-port 56K modem

Voice Card Options:
- 1 to 4-port FXO/FXS
- 1, 2 and 4-port ISDN BRI
- 1, 2 and 4-port T1/E1 PRI

Power Supply Option:
- +12 VDC/+24VDC
- -48 V DC

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
VoIP capture and analysis
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 or DLCI
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, OSPF, IS-IS and BGP
SNMP or NetFlowÆ 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, IPIP 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

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