Introduction

GDC’s PacketMATE 1310 (PM-1310) is a reliable, feature-rich router 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 desktop, 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-to-peer 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™ 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 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.
## 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

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