



Versatile Edge, Border, VoIP Routing

Introduction

GDC's PacketMATE 1400 is a reliable and versatile low cost rackmount router for border, edge, and colocation routing and VoIP applications. The 2U chassis includes expansion slots, a locking front door, and two removable drive bays for applications that can benefit from an additional hard drive, such as web caching and VoIP gateway/auto-attendant.

PacketMATE 1400 (PM-1400) supports up to two T1/E1 or sync serial ports, and provides many powerful features including provides support for NAT firewall, VPNs, Quality of Service (QoS), VLANs, VRRP failover, dynamic routing, packet filtering, bridging, peer-to-peer traffic control, lawful intercept, VoIP gateway, Web filtering with Netsweeper, and more.

The chassis design requires all wiring to be connected inside the rack at the back panel, and supports options for redundant AC or redundant -48 VDC mains. Four expansion slots allow for higher port density as needed.

PM-1400 includes modular support for WAN protocols including PPP, Cisco HDLC, frame relay, ATM, and "best-in-class" T1/E1 solutions that run Any Port, Any Protocol. Its real-time port status and performance monitoring simplifies troubleshooting for LAN and WAN connections.

Intended Use

PacketMATE 1400 is part of GDC's line of high performance low cost routers. It is designed for use as an Internet gateway, and in the network core or edge. The PM-1400 delivers superior performance and reliability in a 2U package that works where most Cisco 2800, 3800, and 7200 routers are used. The PM-1400 is the low cost solution for applications requiring redundant power, high-speed multi-homed networking, DSL aggregation and a wide variety of other mid-range routing applications.

Feature Highlights

- 2RU rackmount router for border, edge, and co-location routing and VoIP
- Two 10/100/1000 ethernet ports
- 1,000,000+ PPS
- Two removable drive bays enable additional hard drive storage capacity.
- Supports redundant AC and DC power supply options.
- Locking front panel door prevents unauthorized access.
- Replaces Cisco 2800, 3800, and 7200 routers.
- Four expansion slots for additional interface ports.
- Console port for configuring the router.
- Dual hand grips to easily move and install the router.
- Supports WAN, LAN and Voice card options
- VoIP gateway and SoftPBX
- Optional Netsweeper^(R) filter
- 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 one year
- Free software upgrades

Physical Specifications

Hardware

Chassis: Steel 2RU 19" rackmount
Processor: Quad Core CPU
Memory: 512 MB DDR SDRAM
Storage: Fixed flash disk
Network Ports: Two 10/100/1000 ethernet
Management Port: Serial console

Expansion Interface

Four expansion slots

Dimensions

Height: 3.5 inches (89 mm)
Width: 19 inches (483 mm)
Depth: 17.4 inches (442 mm)
Weight: 32.3 lbs. (14.7 kg)

Electrical Specifications

Power Supply Design: Switch selectable
AC Mains Voltage: 115/230 V
AC Mains Frequency: 50 to 60 Hz
Power Output: 350 W

Options

Memory Options:
1 GB, 2 GB or 4 GB

LAN Card Options
1, 2 and 4-port gigabit ethernet

WAN Card Options
1-port ATM DS3/E3 or OC3
4-port POS OC3
1 and 2-port HSSI or DS3/E3
1-port channelized DS3
1, 2, 4 and 8-port serial, T1 or E1
1-port basic rate ISDN (BRI)
1-port 56 K modem

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

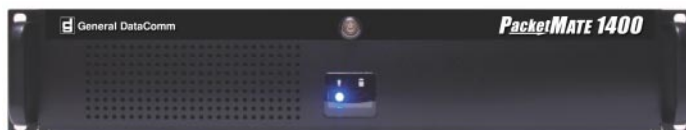
Power Supply Options
-48 VDC
Dual input redundant AC or DC

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
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, IPIP and CIPE tunneling
Remote RADIUS
TACACS+
DHCP client and server
IPSec and SSL VPNs
VRRP router failover
Lawful intercept
VLAN tagging
IPv6

Front/Rear Panel Features

Front panel LED shows the power is on and supplying the unit.
Locking front panel access door
Dual hand grips
Four interface expansion slots
Two 10/100/1000 ethernet ports
Console port setup via modem or laptop



Front Panel



Rear Panel