PLANET
Networking & Communication

BM-2050

50Mbps Bandwidth Manager

Business-critical and time-sensitive applications such as VoIP or transaction processing need guaranteed bandwidth. PLANET's new 50Mbps Bandwidth Managers, the BM-2050, offer enterprise network administrators an easy yet powerful means to allocate network resources based on business priorities, and to shape, analyze and control bandwidth usage. Expensive WAN resources are more effectively utilized, avoiding the need for costly upgrades while still meeting business priorities.

The PLANET BM-2050 is simple to install, with two 10/100Mbps Ethernet port for connecting to the local network and the WAN router respectively. A 16x2 character LCD panel makes installation and maintenance easier and more efficient. For bandwidth management, packets can be classified based on IP address, IP subnet and TCP/UDP port number. The device has more than 20 of the most common protocols such as H.323, Oracle, HTTP, FTP, etc. for ease of definition; the administrator can then define policies to ensure committed and maximum bandwidth levels for inbound / outbound traffic in each class. The administrator can also define three priority levels for each policy to ensure that high priority packets receive the maximum available bandwidth. In addition, each policy can have a schedule defined for when the policy is activated or inactivated in increments of 5 minutes.

The BM-2050 also enable administrators to effectively measure traffic on the network and provide comprehensive graphical reports about how bandwidth is being used. The administrator can view each internal host's inbound and outbound traffic or each network service's inbound and outbound traffic. The BM-2050 also provide a graphical report for either the top ten internal hosts or services that generate traffic. A free utility, Bandwidth Analyzer, is also provided to help you make further analysis of the bandwidth usage. This reporting system helps administrators quickly understand and reallocate bandwidth usage to an optimized level and make best use of the limited and expensive Wide-area network bandwidth. For uninterrupted Internet access, the BM-2050 also provide an in-box bypass function to keep your Internet service available.

➤➤ KEY FEATURE

- 19-inch rack-mount size with two 10/100Mbps Fast Ethernet port for true 50Mbps inbound and outbound throughput
- LCD panel for initial setup and network information display
- Remote configuration through standard web browser with SSL security
- Supports SNMP to simplify management
- Transparent operation requires no changes to existing network structure
- Traffic classification based on IP, IP range/subnet and TCP/UDP port range
- Configurable guaranteed and maximum bandwidth with three levels of priorities
- Assigns daily and weekly access schedules to each individual policy
- Real time traffic monitoring with graphical bandwidth usage display
- Policy bandwidth usage report and customization of bandwidth usage reports
- A free utility, Bandwidth Analyzer, helps with further bandwidth analysis
- All user connections can be recorded and uploaded to an ftp sever for billing or analysis
- Simple backup and restore of configuration files with full SSL protection
- Basic firewall functions with access control by IP or MAC
- IP/MAC discover function finds all hosts on the LAN
- In-box bypass architecture ensures uninterrupted traffic flow even in the event of device failure

PLANET TECHNOLOGY

Product	50Mbps Bandwidth Manager
Model	BM-2050
Hardware	
Connections	2 x 10/100 Base-T
RS-232 console	Yes
LCD Panel	16x2 characters LCD
System LED	System: Power, Status
	Network: ACT/LNK, 10/100
Power	100~240V AC, 50~60Hz
Operating Environment	Temperature: 0~50°C
	Relative Humidity: 20%~90%
Dimension	W x D x H 425 x 334 x 44 mm
Regulatory	FCC, CE Mark
Software	
Maximum Bandwidth	50 Mbps
Management	Web with SSL protect, SNMP, LCD panel
Traffic Classification	IP, IP subnet, TCP/UDP port
Bandwidth Allocation	Hierarchy of policy rules with In/Out traffic management
	Guaranteed and maximum bandwidth
	Scheduled in unit of 5 minutes
	3 Priorities
Real-Time Report	Number of Connections
	Internal Host In/Out Traffic Service In/Out Traffic
	Top 10 Host Top 10 Service
	All Policies Bandwidth Usage Customized Bandwidth Usage Report
Advanced Report	Bandwidth Analyzer for advanced analysis
	Upload each user's connection data to FTP sever for billing or other analysis
Firewall	Deny SYN / UDP / ICMP flood, deny port scan
	Access control to limit user's access rights based on IP or TCP/UDP port
	Discard per user connection based on IP or MAC
Other Functions	Firmware upgradeable through web
	NTP support
	Configuration backup and restore through web
	In-box bypass

>> APPLICATIONS

A company network may contain many kinds of traffic. However, business-critical and time-sensitive applications may be blocked by less urgent traffic competing for limited bandwidth on the WAN. For example, there could be three kinds of bandwidth requirement in an office, such as (for example) VoIP (voice over IP), Oracle (database accessing) and web browsing. The Oracle database may require fixed bandwidth all the time and a VoIP gateway will require real-time and fixed bandwidth when there is a VoIP phone call. However, non-critical applications such as web browsing may overwhelm the limited WAN links and disrupt VoIP and Oracle traffic. By deploying PLANET's Bandwidth Manager, the enterprise network administrator can allocate bandwidth based on business priorities by giving VoIP and Oracle traffic guarantee bandwidth and/or a higher priority. Business-critical applications now receive maximum performance while web browsing is still available on remaining bandwidth. The PLANET Bandwidth Manager also provides comprehensive reporting functions to help monitor network and bandwidth usage and allow adjustment of the bandwidth management policies accordingly..
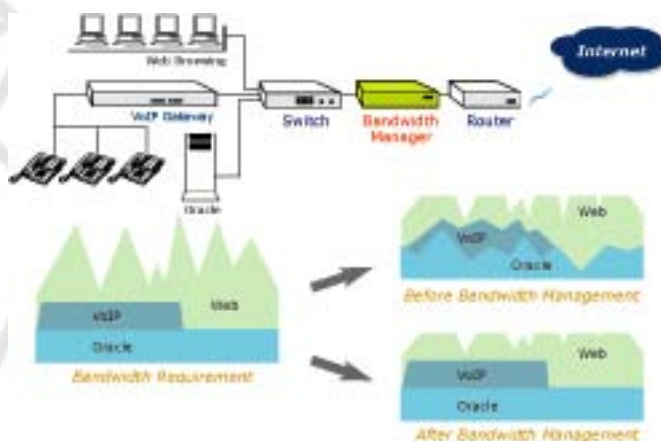
>> ORDERING INFORMATION

➤ **BM-2050**   Bandwidth Management Gateway

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