



OpenBrick-E



Neo



Twister



1U Server

High Performance Gateway for Enterprise!

Hacom pfSense Mars provides the most advanced solution in its class, including stateful inspection firewall, Virtual Private Network (VPN), multi-wan load balancing and failover, WiFi hotspot and captive portal. The Mars is designed to fulfill the demands of Medium- and Large-Businesses requiring a high performance Enterprise router solution that offers the highest level of protection, while allowing expansion of the network infrastructure without compromising its security.

Load Balancing

Load balancing optimizes usages of internet resources. QOS can be setup to prioritize packets routing for VoIP/SIP application.

Redundancy

“Seamless” Failover provides reliable and un-interrupted access to Internet. High Availability is setup throug CARP clustering.

Packages

Capabilities can be expanded by installing various additional packages, including BGP routing protocol, Spam deferral daemon, SIP proxy daemons, Zabbix Agent for system monitoring.

Highlights

Stateful Inspection Firewall enforces security policies and resists malicious attacks.

Easy configuration , security management and monitoring of network infrastructure.

* Performance depends on network environment and configuration of the firewall.

Performance*

Suggested Users: 10-250

Firewall throughput: 200-400Mbps

Concurrent connections: 200,000-400,000

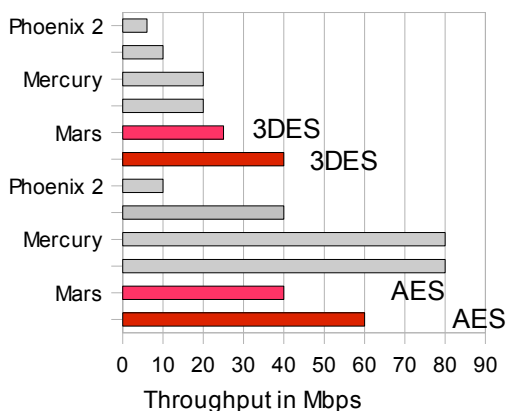
Network Address Translation (NAT) protects and hides internal network information from the outside world.

VPN offers significant savings over leased connections between branches or remote offices.

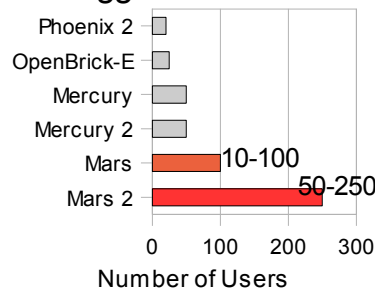
Captive portal allows secure wireless internet access in public areas: such as hotels, libraries, internet cafe or schools.

Virtual Private Network (VPN) allows secure connections between branches or remote offices.

IPSec VPN Performance



Suggested Users



Features

Network Security

- Stateful Inspection
- Transparent layer 2
- Multiple Public IPs
- Traffic shaper
- QOS/VoIP/SIP support
- DoS and DDoS Protection
- Defense against SYN/ICMP Flood
- Anti-Spoofing
- Ability to detect and to filter based on Operating System in use

Firewall State table

- Finely control
- Adjustable state table size
- Per-rule basis
- State types
- Various state table optimization options.

Virtual Private Network (VPN)

- IPSec
- OpenVPN
- PPTP
- Encryption: 3DES, AES 128/256 bits
- Authentication: pre-shared key, certification, local

Network Address Translation (NAT)

- Port forwarding
- 1:1 NAT
- Outbound NAT
- NAT reflection

Configuration and Management

- Web-based Administration
- Secure Shell (ssh) access
- Console access

Reporting and Monitoring

- RRD Graphs of system, firewall states, throughputs
- Real-time data

Captive Portal

- Hotspot wireless network
- URL Redirection
- Authentication options: none, local or Radius
- Radius capabilities

Load Balancing

- Outbound
- Inbound

Redundancy

- WAN failover

Routing

- Static routes
- RIP v1 and 2

Hardware Specifications	Mars	Mars (Wireless)	Mars 2	Mars 2 (Wireless)
Systemboard	CI852A4UN10		CI852A4UNXX	
CPU	Intel Celeron-M 1Ghz		Intel Pentium-M 1.5Ghz	
Memory	512MB		1GB	
Storage	1 GB CF (compact flash) or DOM (Disk-On-Module)* * DOM is more durable than compact flash due to its built-in wear-leveling function			
Ethernet	4 x 10M/100M/1G			
Wireless	-	802.11b/g	-	802.11b/g
Cooling	Fanless (Except for 1U Server case)			
Hardware Warranty	1 year limited			

Case	OpenBrick-E	Neo	Twister	1U Server
Dimensions	220mm x 170mm x 44mm	220mm x 170mm x 44mm	300mm x 200mm x 75mm	430mm x 200mm x 44mm



Contact Information:

Hacom, 205 N Bush St, Santa Ana, CA 92701

Phone: 714-564-9932

E-mail: sales@hacom.net

Website: www.hacom.net