ePipe™ 2200 Series

Multi-access VPN and Security Gateway

e-business access starts here

The ePipe 2200 series is a complete family of Internet security gateways for small to medium sized businesses. It provides shared Internet access for the entire office and Virtual Private Network (VPN) access to securely connect multiple sites and mobile workers. The 2200 delivers all of this, without the costly infrastructure and call charges of traditional Wide Area Networks (WANs).

The 2200 series allows your LAN to enjoy the benefits of high-speed Internet access over broadband or a dedicated leased-line. The 2200 is also available in multi-access format, with the ability to transparently bond up to four dial-up Internet connections together offering scalable bandwidth up to 512 Kbits/sec, in addition to broadband access.

Optional feature sets include Secure Remote Access (SRA), Site to Site VPN (SSV) and Direct Connection Services (DCS). These allow organizations to participate in the Internet economy at their own pace and within tight budgets. For example, small branch offices may require Web access, e-mail and direct dial connections only. As needs change, you can make greater use of the 2200's functionality.

the total solution

The 2200 offers outstanding value straight out of the box, providing the functionality of a router, packet-filtering firewall and scalable-bandwidth Internet gateway in one cost effective solution. The 2200's feature sets also provide:-

♦ Secure Remote Access for mobile clients (PPTP server)
♦ Site to Site VPN using IPSec and ML-IP
♦ Direct dial access for remote workers (2242 only)

robust security

The 2200 lets you adjust the level of security to meet your changing requirements. A packet filtering firewall isolates untrusted Internet connections from your LAN. Network Address Translation (NAT) hides your internal network from those on the Internet and allows you to internally host Web and email servers transparently.

The DCS and SRA feature sets both provide session-based authentication, while the SSV feature set also provides strong per packet authentication. Encryption schemes include MPPE for PPTP clients (SRA feature set) in addition to DES, 3DES and Blowfish (SSV feature set).

bandwidth for every situation

The 2200 incorporates ePipe's Multilink IP (ML-IP) technology. ML-IP delivers a faster aggregate connection over an arbitrary number of dial-up lines for both Internet access and site to site VPN tunnels. ML-IP can be deployed anywhere in the world without any special provisioning from your ISP.

The combination of ML-IP and the choice of dial-up and broadband connections makes the 2200 the most flexible and scalable Internet, VPN and security gateway. It enables businesses to start with a small number of dial-up Internet connections and migrate to broadband connections as their site to site VPN bandwidth needs increase, or as these services become available.

The 2200 grows with you, effortlessly

The 2200 multi-access model lets you start with one or two analog or ISDN connections and add more as your VPN or Web traffic increases, up to 512 Kbits/sec. You can then migrate to broadband Internet access at any time, adding a cable or DSL modem directly to ePipe. Mix and match with 2100 and ePipe ServerWare models to create the most affordable VPN across your organization, with some sites bonding multiple dial-up connections using ML-IP and others using the 2200's broadband connection.

ePipe 2242

ePipe 2202

Technical Specifications

Standard Features

Protocols	TCP/IP, RIP, DHCP, TFTP, PPP
Firewall	Packet filtering with access controls
Internet access - outgoing	Network Address Translation (NAT)
Internet access - incoming	NAT with TCP/UDP port redirection
Scalable bandwidth	Intelligent Internet Bonding (I^{2}B)
Bandwidth control	Dynamic link establishment, with thresholds

Secure Remote Access Feature Set (SRA)

Authentication & accounting	RADIUS, PAP, CHAP, MS-CHAP
VPN clients	Microsoft VPN Adapter (PPTP)
Encryption	MPPE

Site to Site VPN Feature Set (SSV)

Site-to-Site VPN	IPSec tunnel mode, ESP
	MD5, SHA-1 and RMD160 authentication algorithms
Key management	Manual shared keys
Encryption	56-bit DES, 168-bit 3DES and 128-bit Blowfish
Bandwidth control	End to End Bonding (E^{2}B) combines connections into a tunnel. Dynamic link establishment based on thresholds

Direct Connection Services Feature Set (DCS)

Authentication	RADIUS, PAP, CHAP
Direct dial-in	Windows dial-up networking; any PPP client

The Americas (USA)
Tel: 1800 347-7722 (toll free)
Tel: +1 831 477 4345
Fax: +1 831 477 0444

Asia Pacific (Australia)
Tel: 1800 037 473 (toll free, Australia)
Tel: +61 7 3377 7242
Fax: +61 7 3377 7245

Internet
http://www.ml-ip.com/
info@ml-ip.com

Monitoring and Configuration

Configuration	Simple browser based tool, via console port or Telnet session
Monitoring	ePipe discovery on local network; graphs for connection aggregation; event logging, syslog output; network and communications statistics; hardware status and diagnostics
Upgrade utility	Windows application to upgrade firmware

Hardware

Network	IEEE 802.3 Ethernet
	Two 10Base-T Ethernet ports (2242)
	Two 10/100Base-T Ethernet ports (2202)
Serial	Console RS-232 port (DB-9 male)
	Four RS-232 ports (RJ45) up to 230.4 Kbits/sec (2242)
Power supply	External PSU; 12 Volts @ 1 A
Dimensions	224mm x 152 mm x 45 mm
Mounting	Desktop or wall mount slots
Anti-theft	Kensington Security Slot
Indicators (front)	LEDs for power, activity, network and serial I/O traffic
Indicators (rear)	LEDs per port Ethernet link status and activity (2242)
	LEDs per port Ethernet link, speed, transmit, receive (2202)
Environment	0—40 ^{0} C, rel. humidity 10—80% non-condensing
Approvals	FCC Class A, EN55022 Class A, EN55082-1, CE, C-Tick
Warranty	3 year limited warranty (return to manufacturer)
Included - 2202	cables (2 Ethernet/1 console); power pack
Included - 2242	cables (2 modem/2 Ethernet/1 console); loopback; power pack

Model	Description
ePipe 2242	Multi-access VPN gateway; 4 serial ports / 2 10Base-T ports
ePipe 2202	Broadband VPN gateway; 2 10/100Base-T ports
SRA	Secure Remote Access Feature Set
SSV	Site to Site VPN Feature Set
DCS	Direct Connection Services Feature Set (2242 only)
Dual DB25	Pack of two RJ45 to DB25 male modem cables
Quad DB25	Pack of four RJ45 to DB25 male modem cables

ePipe

The Leaders in Multilink IP