

# BeWAN Secure LX400 H



## 4 WAN concentrator with firewall VPN and Internet load balancing High availability

The BeWAN Secure LX400H is a high availability VPN concentrator designed for installation in a central site, as part of a virtual private network. It has 4 WAN ports, a LAN port, a DMZ port, a console port and a 150/500 tunnel VPN server with hardware encryption. The BeWAN Secure LX400H can be used to combine up to 4 independent Internet connections, and provides load balancing and redundancy for Internet and VPN connections, thanks to its tunnel multiplexing, Quality of Service and VRRP protocol features. Its configurable SPI/DoS firewall and IDS/IPS intrusion detection and prevention system guarantee a high level of security for your local network. With its high-performance hardware and software architecture, the BeWAN Secure LX400H is the ideal solution for boosting business productivity, continuity and security.

### 4 WAN ports: four Internet connections

The BeWAN Secure LX400H has 4 10/100 WAN ports, enabling you to connect up to four xDSL, cable, WiMax or satellite modems, combining your independent Internet connections to expand the available bandwidth.

### 1 LAN port: creating or extending the local network

The BeWAN Secure LX400H has a 10/100 Ethernet port with auto MDI/MDI-X for the local network.

### Load balancing and Auto failover

The BeWAN Secure LX400H distributes inbound and outbound traffic between the four Internet connections, according to configurable criteria: time, load, five different algorithms... If one Internet connection fails, traffic is instantly redirected to the other connections until the service is restored (Auto failover).

### VRRP redundancy system

The VRRP (Virtual Router Redundancy Protocol) system lets a second, redundant BeWAN Secure LX400H concentrator take over the network and its parameters, if the first one becomes inactive.

### QoS - Quality of Service

The wide range of different options for allocating bandwidth, managing priorities and differentiating services means the network can be fully optimized, for both inbound and outbound traffic. In addition, if one port becomes saturated, the Intelligent Outbound Mode automatically redirects a part of the traffic to the other ports.

### Virtual Private Networks:

#### IPSec hardware encryption, VPN multiplexing

The BeWAN Secure LX400H incorporates a VPN server with IPSec hardware encryption, which can be used to create up to 150 site-to-site tunnels site and 500 client tunnels (Road Warrior). The VPN multiplexing function lets you increase the number of VPN tunnels between interconnected sites, to boost your bandwidth and guarantee continued service in the event that a connection fails.

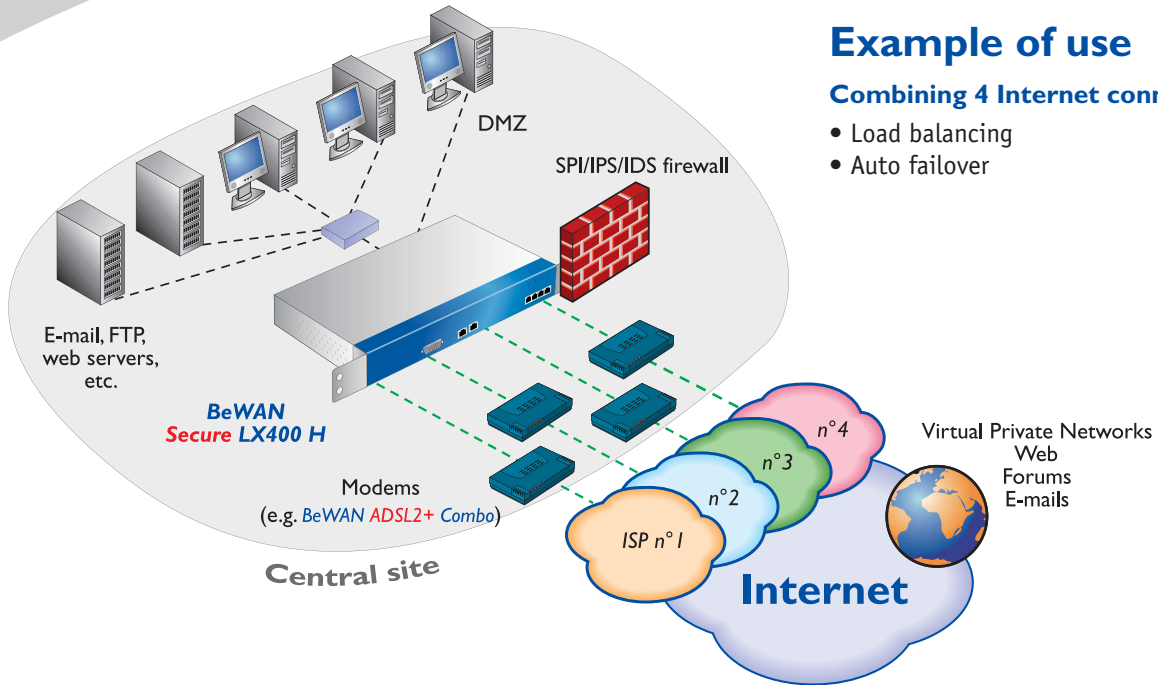
#### Firewall and security: IDS/IPS, physical DMZ port

The BeWAN Secure LX400H guarantees a high level of security for your local network, thanks to its SPI/DoS firewall and PAT/NAT functions. It also includes an IDS/IPS system, which analyses packets in real-time to detect and prevent intrusions. In addition, its physical 10/100 DMZ port can be used to isolate a single workstation or server from the local network.

#### Administration and maintenance

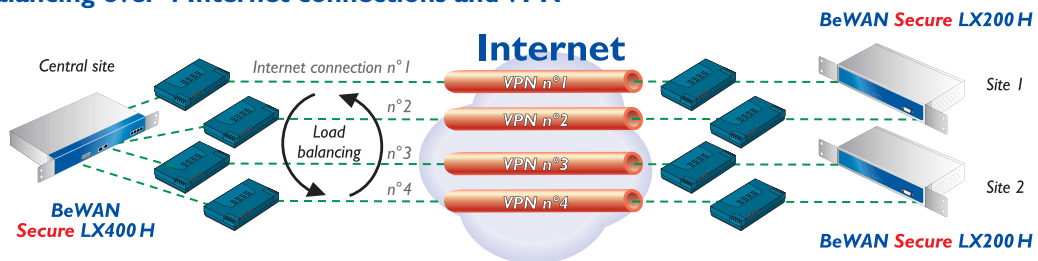
Designed for easy installation in a 19" rack, the BeWAN Secure LX400H can be administered in Telnet mode or via a web HTTP/HTTPS (SSL) web configurator. It also has a RS-232 console port. It has a SNMP and Syslog alert system. With its quick configuration mode, convivial web interface and detailed manual in English, the BeWAN Secure LX400H is supremely simple to use.

# BeWAN *Secure* LX400 H

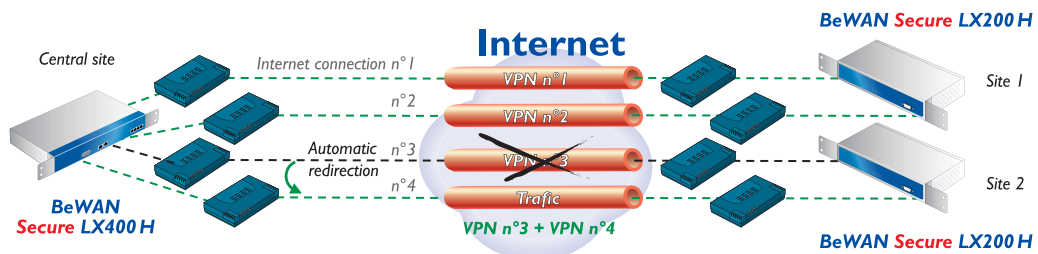


## Example of VPN multiplexing

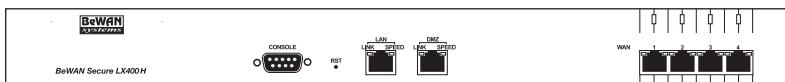
### 1. Load balancing over 4 Internet connections and VPN



### 2. Automatic redirection of traffic if Internet connection fails



## Front view



# BeWAN *Secure* LX400 H

## Technical characteristics

### Wide Area Network (WAN)

- 4 x 10/100 Ethernet ports with auto MDI/MDI-X

### Wired local network (LAN, console, DMZ)

- 2 x 10/100 auto MDI/MDI-X ports:
  - 1 LAN port
  - 1 DMZ port
- 1 RS-232 console port

### Processor and memory

- Power PC 266 Mhz, 16 Mb Flash, 128 Mb SDRAM

### Services and routing

- Transparent mode (Proxy ARP)
- DHCP Server/Client/Relay
- DNS Relay/Server
- Static routing
- RIP version 1 and 2
- VRRP protocol (Virtual Router Redundancy Protocol)

### Load balancing

- Inbound/outbound direction
- Automatic line status detection
- NAT bandwidth: 50 Mbps
- Virtual Server
- Bandwidth aggregation: 5 algorithms (Round Robin, Weighted Round Robin, Perceptive, Fastest Response Time, Priority)
- IP Alias

### Quality of Service (QoS)

- Inbound and outbound modes
- Differentiated Services (DiffServ)
- Intelligent outbound mode

### Firewall and security

- Anti DoS, SPI firewall
- IDS (Intrusion Detection System) and IPS (Intrusion Prevention System)
- NAT/PAT
- DMZ host (software)

### Secure Virtual Private Network (VPN)

- VPN server with IPSec, L2TP, PPTP
- IPSec hardware encryption
- VPN multiplexing
- 150 site-to-site tunnels
- 500 client tunnels (Road Warrior)
- Key exchange (IKE/manual)
- 128/192/256 bit DES, 3DES, AES encryption algorithms
- MD5 and SHA-1 authentication algorithms
- PFS (groups DH 1, 2, 5, 14, 15, 16, 17, 18)
- IPSec NAT traversal
- Dead Peer Detection (DPD)

### Configuration and maintenance (local or remote)

- Administration via HTTP/HTTPS web configurator (SSL), Telnet or via the RS-232 console port
- Quick configuration mode
- Save/restore settings
- Remote updates

### Feedback

- System load report (CPU and memory usage)
- Bandwidth and load balancing report
- Real-time syslog, SNMP trap, e-mail alerts

### Format

- Dimensions: 375 x 274 x 45 mm (LxWxH)
- Weight: 1.6 kg
- Rackable (19") format with kit and screws supplied

### Power supply

- 100 to 240 V AC internal power supply

**Guarantee: 3 years**

**Web interface: English, French**

**Manual: English, French**



BeWAN Secure LX400H  
Ref: BWSEC-LX400H



**BeWAN**  
*systems*

<http://www.bewan.com>