

# megaPAC V-IX™

## 3D Interaction

Drag your mouse over the main image or use the 3D control box and animation buttons below to Interact with the new megaPAC V-IX in realtime.

You can also use the controls to zoom in and out, move, turn or measure the unit. Right click on the image to change the measurement units.

## Scalability and Efficiency

The megaPAC V-IX platform is a new generation of product, which is able to leverage high-end processors while protecting the skills our customers have in the operating system. Although we have introduced a user-friendly interface the essential strengths of our operating system are preserved. Large networks typically require complex configurations and as they expand become increasingly dependant on the ability to easily manage these while maintaining the flexibility of adequate processing power.

## Performance

Although not the absolute measure in terms of ability, packet handling speed is a barrier which is invariably reached on any platform. Designing a system that provides the necessary excess capacity has driven our development to be able to launch this product with more than sufficient processing power to handle our customers' current requirements. As a high-end VPN termination platform the megaPAC V-IX is able to handle in excess of 1000 protocol tunnels. Utilising modern architecture the increased memory and thus increased availability of buffers means the network configurations able to be handled are dramatically increased. A further advantage is that these are achievable on a single platform. Our existing SNMP management platform is seamlessly available too, providing further protection of our customers' investment.

## Redesigned Architecture

The architecture features a 16-slot high speed cPCI BUS based on the PICMG 2.16 standard. All modules are hotswap with an option for a second standby/failover CPU. Each megaPAC V-IX chassis supports up to 80 serial ports at speeds of 2Mbps and dual Gigabit Ethernet interfaces. The clustering function enables even higher redundancy to be added, if required. Up to 4 megaPAC V-IX chassis can be configured in a single cluster with automatic configuration synchronisation across all systems.

# Product Information

## Key Specifications and Benefits

- PICMG 2.16 10U 19 inch rack mount chassis
- Main CPU supporting packet rates up to 60,000 PPS
- 2 x 10/100/1000 Ethernet interfaces, with VLAN support
- Up to 80 serial ports supporting speeds to 2Mbps
- 1.8GHz Main CPU with 1GByte RAM and 2MByte L2 Cache
- Optional second CPU operating in standby/failover mode
- Hot swap WAN and CPU Modules
- Load sharing hot swap power supplies
- Hot swap Fan Tray
- Up to 4 megaPAC V-IX systems can be grouped as a cluster for even higher redundancy if required
- Auto synchronisation of configurations of systems in a cluster
- 10,000 concurrent connections
- Can be managed by SNMP, megaWATCH or NMVT systems
- Ability to store up to 5 separate configurations
- Optional Environmental Module for monitoring temperature, voltage and fan fail

## Ordering Information

- VIX-6000-SYSTEM** megaPAC V-IX System  
megaPAC V-IX System includes chassis, two powersupplies, one CP 6000 Module with dual Gigabit interfaces and one CPC 358 I/O Module
- VIX-6000** CP 6000 Module  
Additional CP 6000 Module for dual processor systems
- VIX-358-IO** CPC 358 I/O Module  
Each module supports up to 8 ports. Maximum 10 modules per chassis.
- VIX-PSU** PSU for megaPAC V-IX  
Maximum 4 PSU's per chassis.

## Functional Specifications

### Serial Link Support

- Standard:  
Vados V-TES architecture  
Frame Relay  
NNI/UNI, LMI (ANSI & ITU)  
Switched & PVC  
TCP/IP, PPP (RFC 1331)  
PAP/CHAP & MLP  
Fractional E1/T1  
ISDN PRI  
X.25 (1980 & 1984), X.32  
OSI Transport (Class 0, 2, 3)  
HDLC transparent pass-through  
Bandwidth management  
Auto link back-up  
Link and Channel bonding
- Optional:  
IBM SDLC / QLLC

### Terminal Emulation

- Standard:  
TCP Telnet (Client & Server)  
Transparent Telnet (RFC 1006)
- Optional:  
ICL 7561  
Hitachi T560  
IBM 3270 (inc.Kanji)  
Telnet (RFC 1646)

### IBM Networking

- Standard:  
SDLC  
QLLC  
Ethernet DLC

### Satellite Networking

- Standard:  
Vados VTES  
SCPC , TDM/SCPC (Integral Support)  
TDMA (I-Direct, ViaSat, Hughes)  
Inmarsat BGAN/RBGAN  
Asymmetrical & Symmetrical clocking  
Data Splitter/Combiner  
TCP Acceleration  
Serial VSAT Terrestrial Link Back up  
IP VSAT Terrestrial Link Back up

### Bandwidth Optimization

- Standard:  
V-TES (VADOS Proprietary)  
IP/UDP Header compression  
IP/UDP/RTP Header compression  
Voice-frame multiplexing

### TCP/IP Routing & Ethernet Support

- Standard:  
MAC bridging, IP routing  
OSPF, RIP, RIP2  
NAT/PAT  
OSI TP4  
GOSIP CLNS/CONS  
BootP Client  
DHCP client  
DHCP Server  
IP/UDP encapsulation with DiffServ  
Port/Address Filtering  
Metro Ethernet 802.1p  
802.1q Ethernet trunk
- Optional:  
IPX routing, OSI ES-IS  
DLC local termination

### Management Support

- Standard:  
Local async console (RS232)  
Virtual port for remote access  
SNMP (MIBs: MIB2 & Enterprise)  
megaWATCH (SNMP Management)  
Billing and Accounting  
Local/Remote configuration, upload, download, TFTP  
Remote software download, TFTP  
RADIUS  
Internal protocol Data scope  
Menu and Presentation Service  
Security (Password, address validation)
- Optional:  
Netview