

# IMG4004-5 Infrastructure Management Gateway



## Next Generation Remote Management

- **Four Serial Ports**
- **Five Ethernet VLAN ports**
- **PCMCIA Slot**
- **2 USB Ports**

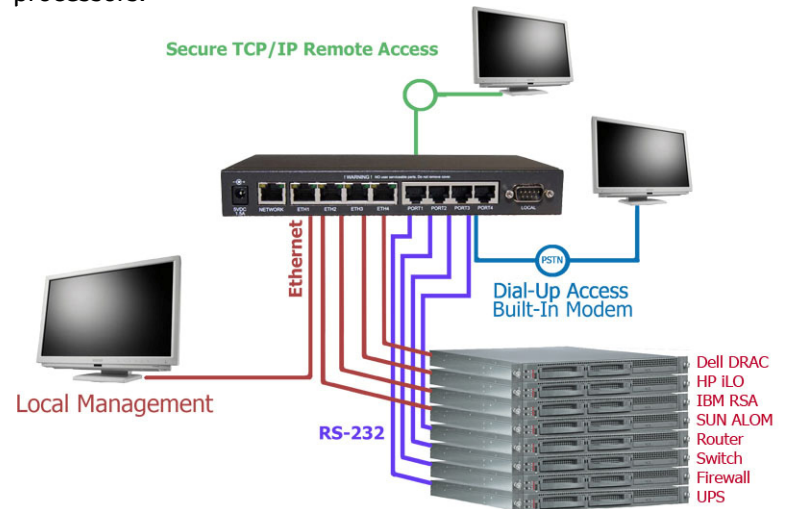
- ◆ Single gateway that manages the full spectrum of serial and network connected servers and devices at the remote site
- ◆ Sophisticated monitoring, alerts and alarms with removable USB flash logs and embedded Nagios NSCA client and NRPE monitoring servers
- ◆ Simplified and automated out-of-band user access to servers with service processors (IPMI, IBMRSA, Dell-DRAC, HP-iLO, SUN-ALOM)
- ◆ Encrypted authenticated access, for both local and remote in-band and out-of-band management
- ◆ Simple point-n-click access and bullet-proof security. Manage multiple sites from any location
- ◆ Powerful yet flexible access controls ensure compliance with enterprise policies
- ◆ Auditable transaction logs, event traps, off site storage and real time alerts ensure regulatory compliance (SOX, HIPAA)
- ◆ Power management of IPMI devices and third party LAN and serial controlled power switches
- ◆ Manage servers from the hardware and BIOS level up to the operating system and applications

## Remote Network Monitoring and Control

The IMG4004-5 management gateway combines all the connectivity and monitoring tools required to remotely administer branch locations. The IMG4004-5 is a complete managed service appliance that reduces the cost and complexity of distributed networks. The IMG4004-5 can integrate remote network service processors, enabling complete server monitoring, maintenance and recovery regardless of state of the processor, operating system or network

## Secure Access to Service Processors

With an IMG4004-5 gateway, the administrator can securely access their remote infrastructure and quickly diagnose and fix any problems with the firmware, operating system or application software. Using the integrated 5 VLAN ports the IMG4004-5 provides console and lights-out management applications to access their embedded IPMI, iLO, RSA, ALOM and DRAC service processors.



## Optimized for Distributed Enterprise Networks

The IMG4004-5 is built on open source standards that utilize the strength, security and the broad manageability features of Linux. This robust, reliable open software technology has been optimized specifically for secure console management and remote control applications. The IMG4004-5 couples this high quality software with a deeply integrated hardware design. The IMG4004-5 is built on powerful ARM-based System on Chip technology with a low component count. This yields higher reliability, lower power consumption and leading network and cryptographic performance. As a result the IMG4004-5 leads on features, performance, reliability and price.

## High Availability

- Auto Ethernet Failover
- Heartbeat monitor with auto dial-out option
- Multiple local boot images stored locally for roll back
- 512MB – 1GB local FTP/TFTP storage for configuration files

## Network Port Management (LAN)

- Primary Ethernet network port for main office LAN
- Integrated 4 port VLAN switch provides management LAN
- Secure SSH tunneling (TCP/UDP applications)
- Secure Remote Desktop access to Windows XP/2003
- Secure VNC access to Sun/Windows /Linux computers
- Secure HTTP(S) access to browser controlled appliances
- Limit user access by LAN device and SDT service for that device
- Port triggers with SMNP and email alerts for all tunnel traffic
- Port forward to an unlimited number of locally networked hosts
- No limit of hosts being concurrently accessed through one tunnel
- Up to 50 concurrent SSH sessions (SDT tunnels)
- No limit on number of clients who can access the one gateway

## Service Processor & BMC Management (LAN)

- Secure Gateway to multiple service processors and BMCs
- Automatic service processor BMC addressing on management switch
- Secure Service Processor traffic forwarding through switch to client
- Isolation between service processors on management switch
- Compatible with leading service processor BMC tools
- Native IPMI 1.5 and 2.0 (RMCP/RMCP+) support
- Secure SoL (Serial over LAN) text access to BIOS, EMS and SAC
- Service processor web console access (IPMI, iLO, RSA, DRAC etc.)
- OS & BIOS access via service processor KVM (iLO, RSA, DRAC)

## Console Port Management (Serial)

- Windows 2003 Server ACS and EMS support
- SUN / Solaris ready (no inadvertent breaks)
- Break over SSH support
- Port triggers with SMNP and email alerts
- Offline data logging (Syslog, NFS, CIFS)
- Multiple users per port (with port sniffing)
- Access by TCP port
- Telnet/SSH/Raw TCP connect
- RFC 2217 - Port Redirection
- Windows Remote Desktop or VNC over serial support
- Clustering - single IP for multiple devices
- Per serial port user access lists

## Point-and-click SSH Tunneling client (SDTConnector)

- Single access point for distributed networks of PCs and appliances
- Preconfigured to tunnel VNC, RDP, HTTP, HTTPS, SSH and Telnet
- Specify custom services with TCP/UDP port numbers
- Strong Encryption (3DES, Blowfish, AES, Arcfour)
- Strong Authentication (Public Key, One-Time Password, Kerberos)
- Easy for the end user to install with point and click operation
- Simple for the administrator to configure and manage
- No limit on the number of gateways that can be accessed
- Runs on Windows, Linux, UNIX, Solaris, Mac OS X JRE 1.4.2 or later



## Ordering Details

USA	UK	EU	RS-232	10/100	PCMCIA	USB	Warranty
IMG4004-5-US	IMG4004-5-UK	IMG4004-5-EU	4	5	1	2	1 Year

## Technical Specifications

### Security and Authentication

Secure Shell (SSH V2 and V3)  
TACACS+ , RADIUS and LDAP authentication  
PAP/CHAP authentication (dial up) with dial back support  
Local and remote authentication SSH port and IP forwarding support  
IP packet filtering,  
System event Syslog

### System Management and Accessibility

Secure web management HTTPS & HTTP  
Command Line interface (Linux Shell)  
ARP-Ping (IP address assignment) & SNMP  
In-band (local Ethernet or secure tunnel over Internet)  
Out-of-band (dial-up modem, WLAN or Ethernet broadband)  
Local serial console access  
CardBus slot for analog modems, WiFi LAN, 3G modems USB port  
(modems, 3G, Wireless, additional storage or adapters)

### Other Protocols Supported

DHCP server and client for dynamic IP assignment  
NTP for time synchronization & HTTP, FTP, TFTP client PPP for dial up access & NAT port redirection Flash upgradeable (free upgrades from online FTP site)

### Operating System

Linux with source code access 512MB -1GB local flash for custom code

### Environmental:

Ambient operating: 5°C to 44°C (41°F to 112°F) Storage: -30°C to +60°C (-20°F to +140°F) Humidity: 5% to 90% MTBF: 150,000 hrs

### CPU/Memory:

166MHz ARM (Micrel KS8695P) 64MB SDRAM 16MB Embedded USB Flash 512MB

### Power, Size & Weight

IMG4004-5: 4 serial ports, 5 Ethernet ports 2 USB-2 & 1 Card Bus  
External 100-240V AC 50/60 Hz to 5V DC Power Consumption less than 15W 8.2 x 4.9 x 1.2 in (21 x 12 x 3.2 cm) 3.7 lb (1.7 kg)

### Regulatory

FCC Part 15 A UL 1950 TUV C-Tick ROHS CE (EN55022 A, EN55024, EN60950)



**opengear**  
secure server management