

# VIGOR2930 SERIES

## DUAL-WAN SECURITY FIREWALL

- ▶ Dual-WAN with policy-based load-balance and fail-over
- ▶ Flexible bandwidth management to optimize bandwidth usage
- ▶ Object-based firewall preventing external attacks and simplifying the Internet access policy settings
- ▶ Hardware-based VPN platform for high performance remote data access
- ▶ 802.11n (Draft-n) improves wireless speed and coverage
- ▶ VoIP capabilities with twin analogue phone ports, one ISDN port dedicated to ISDN phone and one ISDN port configurable for ISDN phone / line

The Vigor2930 is a dual-WAN router with policy-based load-balance, fail-over and BoD (Bandwidth on Demand); it also features advanced bandwidth control mechanisms such as IP-layer QoS, NAT session limitation, bandwidth borrowed, etc., to allow easy, flexible and reliable access control and bandwidth management.

The SPI (Stateful Packet Inspection) firewall uses object-based design to make settings of firewall policies easy. The CSM (Content Security Management) feature enables more precise and efficient access control for IM (Instant Messenger) and P2P (Peer to Peer) applications. Furthermore, functions such as DoS / DDoS (Denial of Service / Distributed DoS) and URL / Web content filtering minimize security threats both inside and outside the network.

With hardware-based implementation of the VPN protocols, the Vigor2930 supports up to 100 VPN tunnels in compliance with advanced protocols such as IPSec / PPTP / L2TP / L2TP over IPSec with AES / DES / 3DES for encryption and MD5 / SHA-1 for authentication.

Vigor2930 "n" models conform to IEEE 802.11n Draft-n standards. They support WEP / WPA / WPA2 encryption, MAC address control, wireless LAN isolation, wireless VLAN and 802.1X authentication. The wireless rate control function can adjust the data rate of each wireless station (client). WDS can help users to extend wireless coverage easily.

Vigor2930 "V" models provide twin analogue phone ports. "S" models support two ISDN ports. Combining the characteristics of "V" and "S" models, "VS" models can offer two ISDN ports additionally besides analogue phone ports. ISDN S0 port is dedicated to for ISDN phone; another ISDN port is configurable for ISDN line and phone. It supports multiple SIP registrars with highly flexible configuration and call handling options.

### Dual-WAN

- Outbound Policy-Based Load-Balance
- BoD (Bandwidth on Demand)
- WAN Connection Fail-over

### WAN Protocol

- DHCP Client
- Static IP
- PPPoE
- PPTP
- L2TP\*
- BPA

### Firewall

- CSM (Content Security Management) for IM / P2P Applications
- Multi-NAT, DMZ Host, Port-Redirection and Open Port
- Policy-based Firewall
- MAC Address Filter
- SPI (Stateful Packet Inspection)
- DoS / DDoS Prevention
- IP Address Anti-spoofing
- E-Mail Alert and Logging via Syslog
- Bind IP to MAC address

### Wireless Access Point (for n model)

- IEEE802.11n Compliant
- Wireless Client List
- Access Point Discovery
- WDS (Wireless Distribution System)
- Wireless LAN Isolation
- Wireless Rate-Control
- 64/128-bit WEP
- WPA/WPA2
- 802.1X Authentication with RADIUS Client
- Hidden SSID
- MAC Address Access Control

### Content Filter

- URL Keyword Blocking (White List and Black List)
- Java Applet, Cookies, Active X, Compressed, Executable, Multimedia File Blocking
- Web Content Filter (SurfControl)
- Time Schedule Control

\* Firmware Upgradeable



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### VoIP (for V model)

- Protocol: SIP, RTP / RTCP
- One Dozen SIP Registrars
- G.168 Line Echo-cancellation
- Automatic Gain Control
- Jitter Buffer (125ms)
- Voice Codec:
  - G.711 A / u law
  - G.723.1
  - G.726
  - G.729 A / B
  - VAD / CNG
- Tone Generation and Detection: DTMF, Dial, Busy, Ring Back, Call Progress
- DTMF Tone :
  - In Band / Out Band (RFC-2833) / SIP Info
- FAX / Modem Support :
  - G.711 Pass-Through
  - T.38 for FAX
- Supplemental Services :
  - Call Hold / Retrieve
  - Call Waiting
  - Call Waiting with Caller ID
  - Call Transfer
  - Call Forwarding (Always, Busy and No Answer)
  - DND (Do Not Disturb)
  - Call Barring (Incoming / Outgoing)
  - WMI (Message Waiting Indicator) (RFC-3842)
  - Hotline
- ISDN Loop-Through (VS model only)
- ISDN On-Net/Off-Net (VS model only)

### VPN

- Up to 100 VPN Tunnels
- Protocol : PPTP, IPSec, L2TP, L2TP over IPSec
- Encryption : MPPE and Hardware-based AES / DES / 3DES
- Authentication : Hardware-based MD5, SHA-1
- IKE Authentication : Pre-shared Key and Digital Signature (X.509)
- LAN-to-LAN, Teleworker-to-LAN
- DHCP over IPSec
- NAT-Traversal (NAT-T)
- Dead Peer Detection (DPD)
- VPN Pass-Through

### Bandwidth Management

- QoS :
  - Guarantee Bandwidth for VoIP
  - Class-based Bandwidth Guarantee by User-defined Traffic Categories
  - DiffServ Code Point Classifying
  - 4-level Priority for each Direction (Inbound / Outbound)
  - Bandwidth Borrowed
- Bandwidth / Session Limitation

### Network Management

- Web-based User Interface (HTTP / HTTPS)
- Quick Start Wizard
- CLI (Command Line Interface, Telnet / SSH\*)
- Administration Access Control
- Configuration Backup / Restore
- Built-in Diagnostic Function
- Firmware Upgrade via TFTP / FTP
- Logging via Syslog
- SNMP Management MIB-II

### Network Features

- DHCP Client / Relay / Server
- IGMP Proxy / Snooping
- Port-based VLAN
- Dynamic DNS
- NTP Client
- Call Scheduling
- RADIUS Client
- DNS Cache / Proxy
- UPnP
- Routing Protocol:
  - Static Routing
  - RIP V2

### ISDN (for S model)

- One ISDN Port Fixed for ISDN Phone and One ISDN Port Configurable for ISDN Phone / Line
- Euro ISDN Compatible
- Automatic ISDN Backup
- Support 64 / 128Kbps (multilink-PPP) / BOD (Bandwidth On Demand)
- Remote Dial-In / LAN-to-LAN Connection
- Remote Activation
- Bypass the Upper and Lower ISDN Port During Power Cut

### Model Comparison Chart

	VoIP	ISDN S0	Wireless AP
Vigor2930	—	—	—
Vigor2930n	—	—	●
Vigor2930Vn	●	—	●
Vigor2930VS	●	●	—
Vigor2930VSn	●	●	●

### Wireless Security

- \* WPA / WPA2
- \* 64/128-bit WEP Encryption
- \* MAC Address Blocking
- \* Hidden SSID
- \* 802.1x Authentication



VoIP



Dual-WAN