



Z H O N E

ADSL2+ 4Port Modem

6412-A1-xxx

ADSL2+ 4 Port Switch Bridge/Router

- ✓ *Auto-connect feature will automatically detect the first usable PVC and automatically detect PPPoE, PPPoA, and Bridge Protocol(with DHCP Server available)*
- ✓ *Configurable as either a Bridge or Router*
- ✓ *IGMP v1/v2 support for video deployments*
- ✓ *Filter traffic based on Destination or Source IP Address and MAC Addresses*
- ✓ *Traffic Class Rules based on Protocol, Source IP, Source Port, Destination IP, Destination Port, 802.1p*
- ✓ *DSL DELT support*
- ✓ *Configured through easy-to-use web interface*



The Zhone 6412-A1 ADSL 2/2+ 4 Port Ethernet Bridge/Router uses Conexant Viking II-Plus Chipset solution that fully complies with ANSI T1.413 Issue 2, ITU-T G.992.1 (G.dmt) and G.992.2 (G.lite) ADSL standard. Zhone 6412-A1 also provides higher data transmission rates with ADSL2, ADSL2+, and Extended Reach-ADSL support. This next generation ADSL will provide up to 12Mbps speed with an additional 600 feet reach for ADSL2; and up to 27Mbps speed with distance up to 5,000 feet for ADSL2+ Support. In addition, with ADSL2+ Annex M support, upstream rate will be improved to up to 3Mbps.

Targeted at the residential users, it is for both single user using Bridge mode with host based PPPoE Client and multi-users utilizing the 6412-A1 inbuilt PPPoE/A, IP routing, NAT functionality to share the ADSL link.

It comes with the Packet Filtering firewall and DMZ support for a full security options against malicious hackers. With Universal Plug and Play support, home networking becomes a breeze for everyone in the family. Multi Port Range/Popular Application Forwarding makes it even easier to select which application you want your network to allow while ensuring your security at the same time. The 6412-A1 supports VPN Server/client for IP Sec, PPTP, L2TP providing security for enabling SOHO/Branch Office applications.

With DSL Home support for auto-provisioning through TR-069 for WAN management and TR-064 for LAN management, the 6412-A1 is an ideal platform for a scalable managed solution for Telco deployment of advance services.

Technical Specifications

Dimensions

- 1.2" (3.0cm) High x 6.5" (16.5cm) Wide x 4.4" (11.2cm) Deep

Weight

- 1.5 lbs (0.7 kg)

Power

- 100 VAC, 50 Hz
- 110 VAC, 60 Hz
- 220 VAC, 50/60 Hz

Interfaces

- DSL Line: RJ11
- Phone Line: RJ11
- Ethernet: 4 Port 10/100BaseT, Auto MDI/MDIX

Standards Support

- ATM Support
 - ITU-T I.610 F4/F5 OAM Send and Receive/Loop back
 - Support for multiple PVC's up to 16
 - RFC 1483/2684 (Bridged/Routed Ethernet over ATM)
- Routing/Bridge Support
 - Transparent Bridge Support
 - DHCP Server
 - DNS Relay Agent
 - Dynamic DNS Support
 - DMZ support
 - Static Routing
 - RIPv1 and RIPv2
 - Policy based QoS (TOS, 802.1p, Source/Destination IP Address, Source/Destination Port, Protocol)
 - IGMP v1/v2
 - SNTP support
 - IP Sec and PPTP/L2TP VPN pass through support
 - QOS (802.1p) support
 - Port forwarding
 - Port to PVC mapping
- PPP Support
 - PAP/CHAP authentication
 - PPPoA
 - PPPoE
- Security
 - NAT for Basic Firewall support
 - Ingress and Egress Packet Filtering
 - Stateful Packet Inspection
 - Protection against Denial of Service attacks

Protocol Support

- ANSI T1.413 (Full Rate ADSL)
- ITU K.21 (Overvoltage / Current)
- ITU G.992.1 (DMT)
- ITU G.992.2 (G.lite)
- ITU G.992.3 (ADSL2)
- ITU G.992.5 (ADSL2+)
- ITU G.994.1 (G.hs)
- ITU G.997.1
- Annex L
- Annex M

Management

- Web-based Configuration GUI
- CLI
- Telnet Remote Management
- FTP/TFTP firmware upgrade and configuration backup/restore
- Configuration backup support
- Syslog Support
- TR-069 Support
- IGMP Support
- UPnP Support

Regulatory Compliance

- FCC Part 15, Part 68
- CE
- CSA
- UL
- CUL
- TUV
- RoHS compliant

Operating Requirements

- Operating Temperature: 32° F to 104° F (0° C to 40° C)
- Storage Temperature: -4° F to 149° F (-20° C to 65° C)
- Humidity: 5% to 95%, non-condensing

Ordering Information

6412-A1-200	ADSL2+ CPE Router, 4 Port Ethernet Switch, NA
6412-A1-300	ADSL2+ CPE Router, 4 Port Ethernet Switch, UK
6412-A1-302	ADSL2+ CPE Router, 4 Port Ethernet Switch, EURO
6412-A1-304	ADSL2+ CPE Router, 4 Port Ethernet Switch, India
6412-A1-330	ADSL2+ CPE Router, 4 Port Ethernet Switch, Annex B UK
6412-A1-332	ADSL2+ CPE Router, 4 Port Ethernet Switch, Annex B EURO



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