



Z H O N E

# ADSL2+ 4Port Modem

1512-A1-xx

## 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*
- ✓ *Single Click DSL test - Tests Ethernet connection and ADSL Synchronization along with ATM OAM F5 segment pings and end-to-end pings.*
- ✓ *Configured through easy-to-use web interface*

The 1500 ADSL2+ family of endpoints deliver the required performance for multimedia applications at very competitive price points. The 1500 ADSL2+ endpoints, in compact form factor, have been successfully used for residential, business, in-building deployments such as hotel/motel, temporary housing, and dormitory-campus installations for high-speed internet access (HSIA) and video-on-demand services.

The Zhone 1500 ADSL2+ endpoints are easily user-installed. The embedded web-based user interface is designed to simplify ADSL deployment. All products provide an Ethernet connection that is auto-sensing, eliminating the worry about connection cable type (straight-through vs crossover).

DELT or Dual End Loop Test, is a feature that is present the 1500 Family of ADSL2+ CPEs. DELT is primarily used for reactive tests on a loop after a modem has been deployed—either to help troubleshoot a line or to capture a baseline of loop characteristics at the time of installation. Because DELT is a dual-ended test, it requires equipment that supports the DELT feature at both ends of the copper loop. While this prevents DELT from being used on loops where no CPE has yet been deployed, DELT in turn offers a deeper set of loop tests, and can provide very valuable information on the condition of a copper loop.

Default settings make for a quick and easy installation that doesn't require any configuration.

The modem, when operating in router mode, support DHCP Server/Relay/Client, NAT, as well as RIP, dynamic routing, port forwarding, and static routing. For security, firewall functions, PAP/CHAP authentication and IP filtering are supported.

## Technical Specifications

### Dimensions

- 1.75" (4.4cm) High x 6.56" (14.1cm) Wide x 5.125" (13cm) Deep

### Weight

- 1.5 lbs (0.7 kg)

### Power

- Input: 100-220VAC 50/60Hz
- Output: 12VDC, 700mA

### Interfaces

- DSL Line: RJ11
- Ethernet: RJ45, 4 Port 10/100BaseT, Auto MDI/MDIX
- RESET Button
- On/OFF switch

### Standards Support

- ATM Support
  - ITU-T I.610 F4/F5 OAM Send and Receive/Loop back
  - Support up to 8 PVC's
  - RFC 1483/2684 (Bridged/Routed Ethernet over ATM)
- Routing/Bridge Support
  - Transparent Bridge Support
  - DHCP Server/Relay/Client
  - 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
- PPP Support
  - PAP/CHAP authentication
  - PPPoA
  - PPPoE
- Security
  - NAT for Basic Firewall support
  - Ingress and Egress Packet Filtering
  - Parental Control
  - MAC Filtering
  - Stateful Packet Inspection
- DELT support
- uPNP

### Protocol Support

- ANSI T1.413 (Full Rate ADSL)
- 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
- Syslog Support
- TR-069 Support
- SNMP Support

### Regulatory Compliance

- FCC Part 15, Part 68
- CE
- UL
- CS-003
- 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

1512-A1-NA	ADSL2+ CPE Router, 4 Port Ethernet Switch, N.A.
1512-A1-UK	ADSL2+ CPE Router, 4 Port Ethernet Switch, U.K.
1512-A1-EU	ADSL2+ CPE Router, 4 Port Ethernet Switch, EURO



Zhone Technologies, Inc.  
 @ Zhone Way  
 7001 Oakport Street  
 Oakland, CA 94621  
 510.777.7000 phone  
[www.zhone.com](http://www.zhone.com)

For more information about Zhone and its products, please visit the Zhone Web site at [www.zhone.com](http://www.zhone.com) or e-mail [info@zhone.com](mailto:info@zhone.com)

Zhone, the Zhone logo, and all Zhone product names are trademarks of Zhone Technologies, Inc. Other brand and product names are trademarks of their respective holders. Specifications, products, and/or product names are all subject to change without notice.  
 Copyright 2009 Zhone Technologies, Inc. All rights reserved.