



Z H O N G

# VDSL2 Bridged/Router

6652-A1

## VDSL2 Bridged 4-Port Modem

- ✓ *Programmable support of plan 997, 998, FX and China plan*
- ✓ *Optional U0 band for long reach applications*
- ✓ *DMT based packet mode supports Ethernet-over VDSL (EoVDSL) with asymmetric line data rates of 100Mbps downstream and 50Mbps upstream, or symmetric 50Mbps line data rate.*
- ✓ *Auto sensing ethernet ports*
- ✓ *Integrated Layer 2 switch with traffic classification and QoS support.*
- ✓ *IP switching, NAT, PAT, SPI firewall and packet filtering*
- ✓ *Firmware upgrade via ethernet from local LAN or remote side.*



The 6652-A1 is an ethernet-over-VDSL bridge modem utilizing the Ikanos chipset that complies with various VDSL standards, and provides unprecedented broadband service over a single pair of copper wire. The four 10/100 Base-T Ethernet Ports can easily connect to any PC or LAN in a home or small office environment. Quality and multimedia service is ensured with its powerful traffic control and management over layer 2 or layer 3. While the NAT/PAT technologies share the broadband connection to all its LAN clients for all prevailing internet applications, the embedded firewall keeps out those malicious attacks and intrusions. Network management is implemented so it can be easily configured and managed by the service provider.

## Technical Specifications

### Dimensions

- W(8.81in) x D(6.37in) x H(1.29in)

### Weight

- 0.61lbs

### Power

- Input 120 VAC 60Hz
- Input 230 VAC 50 Hz
- Output 15VAC 1A

### Interfaces

- 1 x RJ11 - VDSL2 uplink
- 4 x RJ45 - 10Base-T/100Base-TX Ethernet
- 1 x ON/OFF Power Switch

### Standards Support

- VDSL
  - ITU-T G.993.2 (VDSL2)
  - ITU-T G.993.1 (VDSL1)
  - ANSI T1-424
  - ETSI TS 101 270-1
  - ETSI TS 101 270-2
  - China MII VDSL standard
  - ITU-T G.994.1 (G.hs) based hand shaking
  - Support Band Plan 998/997, and China Band Plan; Support 5 Band Plan up to 17.6MHz
  - EFM (IEEE802.3ah)
  - Extended USO band up to 276kHz
  - VLAN to Port mapping
- Ethernet Interface
  - IEEE 802.3/802.3u compliant
  - Support 10/100Mbps operation
  - Support half/full duplex operation
  - Support IEEE 802.3u clause 28-auto negotiation
  - Support Flow Control
  - Support Auto MDI/MDIX
  - Support 802.1d
  - IEEE 802.1q
  - IEEE 802.1p
  - IGMP Snooping

### Protocol Support

- ITU-T G.993.2
- ITU-T G.993.1
- ANSI T1.424
- ETSI TS 101 270-1
- ETSI TS 101 270-2

### Management

- Web Interface HTTP

### Regulatory Compliance

- FCC Part 15/68
- UL
- CSA
- CE
- RoHS Compliant

### Operating Requirements

- Temperature
  - Operating: 0C to 40C / 32F to 104F
  - Non-Operating: -25C to 85C / -13F to 185F
- Humidity
  - Operating: 5% to 95% Relative Humidity (Non-Condensing)
  - Non-Operating: 5% to 95% Relative Humidity (Non-Condensing)

## Ordering Information

6652-A1-200

VDSL2+ 4 Port CPE4, NA

6652-A1-302

VDSL2+ 4 Port CPE4, 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 2007 Zhone Technologies, Inc. All rights reserved.