

- ✓ *High-density, 48 ADSL2+ ports supporting ADSL2+/ADSL2/ADSL standards*
- ✓ *Conexant-based, G24™ ADSL2+ chip set delivers up to 24 Mbps downstream and 2 Mbps upstream*
- ✓ *IP Multicast for delivering high speed IP Video over ADSL2+*
- ✓ *Full MTM Feature Set Support with IP QoS Support for Traffic Management and Prioritization*
- ✓ *Full interoperability with Aware's Dr. DSL® Line Diagnostics Platform*
- ✓ *Plug & Play architecture minimizes configuration and set up time*
- ✓ *Full range of integrated CLI, SNMP, and Web GUI Management options, including Loop Diagnostics (SELT/DELT) support*

Standard ADSL2+ delivers high-speed IP capability for high bandwidth Triple Play applications of voice, video, and high speed data

Zhone's AIM24000-48 ADSL2 + Line Card is a high-density ADSL2 + access module for Zhone's IPD12000E/4000E IP-DSLAM product family.

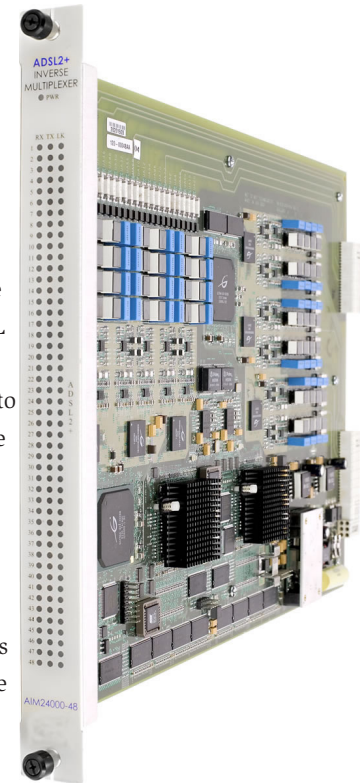
Available in versions that support Annex A/C/H/L (AIM24000-48A2) and Annex B (AIM24000-48B2), the AIM24000 line cards are 48-port modules that use Conexant's G24™ DSL chip sets to deliver high speed asymmetrical bandwidth, with downstream data rates of up to 24 Mbps and upstream rates up to 2 Mbps. The AIM24000 also provides backwards compatibility with standard ADSL and ADSL2 modems, preserving previous investments in those CPE technologies.

The AIM24000 access modules support Zhone's Multimedia Traffic Management (MTM) feature set, which includes packet QoS, rate limiting, traffic steering, and advanced packet filtering. MTM ensures that specific applications are given appropriate priority and bandwidth allocation throughout the system, while marking the packets for upstream network devices.

The AIM24000 supports full backwards compatibility with ADSL and ADSL2 modems, while bringing the newest advancements in ADSL2 + technology. A few of the enhancements supported by the AIM24000-48 include: seamless rate adaption; power management; and loop diagnostic capability via SELT and DELT.

Enhanced SNMP MIBS on the AIM24000 access modules allow for full interoperability with 3rd party loop diagnostic analyzers, such as Aware's Dr. DSL® Line Diagnostic Platform. Aware's Dr. DSL® Line Diagnostics Platform is a centralized, software based test and diagnostics solution that provides service providers with a comprehensive system for pre-qualification, fault detection, line diagnostics and monitoring of DSL lines. The server-based solution collects single-ended (SELT) and dual-ended (DELT) raw data from the AIM24000 cards where it is normalized, interpreted and presents results using a simple, graphical user interface.

The AIM24000 also features easy 'Plug & Play' operation. The AIM24000 auto configures every port, including ADSL line mode (ADSL2 + , ADSL2, ADSL) and PVC information, making installation of ADSL2 + lines quick, easy and configuration free.



## Technical Specifications

### Dimensions

- 12.75" H x 1.15" W x 16.75" D
- 32.4cm H x 2.9cm W x 42.5cm D

### Weight

- 3.6 lbs (1.6 kg)

### Power

- 1.4A @ -48 VDC

### Interfaces

- 48 ADSL2+ Ports (2 RJ21 50-pin Telco)
- 2 IP DSLAM Backplane Interfaces

### Standards Support

- ITU G.992.1 (full-rate G.dmt)
- ITU G.992.2 (G.lite)
- ITU G.992.3 (ADSL2)
- ITU G.992.5 (ADSL2+)
- ITU G.994.1 (Hand Shake Protocol)
- ITU G.997.1 (physical layer management)

### Protocol Support

- ATM PVC Support:
- VPI/VCI defaults to 0/35
- VPI range: 0-255; VCI range: 0-65535
- Auto VPI/VCI detection
- ATM Encapsulation:
- RFC 1483/2684 LLC or VCM

### Bandwidth/Distance

- Selectable speed settings
- Up to 24 Mbps Downstream
- Up to 2 Mbps Upstream

### Regulatory Compliance

- NEBS: GR-63-CORE, GR-1089-CORE
- EMC: FCC Part 15; CSA/C108.8; EN55022; EN55024 CE Marking
- Safety: UL1950, CSA C22.2 No. 950; EN60950; CE Marking

### Operating Requirements

- Temperature: 32°F to 122°F (0°C to 50°C)
- Non operating: -40°F to 158°F (-40°C to 70°C)
- Humidity: 5% to 95%, non-condensing
- Altitude: -200ft to 16,500ft (-60m to 5,000m)

## Ordering Information

AIM24000-48A2	48 port ADSL2+ Line Card for the 12000E/4000E BLC (Annexes A, C, H, and L)
AIM24000-48B2	48 port ADSL2+ Line Card for the 12000E/4000E BLC (Annex B)



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**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)**

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