Stinger® DSL Access Concentrator 48-port ADSL/ADSL2+ Ready LIM

This Stinger® line interface module (LIM) supports a mix of DSL technologies that you can adjust port by port, giving you a fast, cost-effective way to meet your customer's changing needs. Your options include ADSL and g.lite, along with ADSL2 and ADSL2+, which is available with a simple software upgrade. ADSL technology provides transport speeds up to 8 Mbps downstream and 1 Mbps upstream, while ADSL2+ doubles the bandwidth used for downstream transmission,—enabling more high-value services. You can also use lower-rate ADSL2+ to extend your DSL service range and reach more subscribers.

Applications

- Residential broadband services, including Internet access, streaming multimedia, telecommuting and home office
- Business-class data services, including intranets and fast Internet access
- Extended service reach or enhanced high-speed offerings, such as premium data services, broadcast TV and video-voice-data bundles (using ADSL2+)

Features

- **DSL options**—Lets you choose ADSL or g.lite technology—or take advantage of an optional software upgrade that supports ADSL2 and ADSL2+
- **ADSL connections**—Delivers data transport rates up to 8 Mbps downstream and 1 Mbps upstream
- **ADSL Annex A, B and C versions**—Meets regional requirements:
  Annex A—allows ADSL and POTS to operate on the same copper pair
  Annex B—enables ADSL and ISDN to operate on the same copper pair
  Annex C—allows ADSL to coexist with Japanese TCM-ISDN in the same binder group
- **ADSL2+ software upgrade**—Offers downstream data rates up to twice as fast as ADSL—or allows you to further extend your DSL service reach, at lower speeds
- **48 ports per LIM**—Supports up to 672 ADSL in a single Stinger chassis—minimizing the cost of service delivery
- **Flexible mix of technologies on each card**—Allows you to choose ADSL, g.lite, ADSL2 or ADSL2+ on each port, with quick adjustment to satisfy changing demands
- **POTS support**—Enables traditional voice services to operate on the same copper line used for ADSL or ADSL2+
- **QoS capabilities**—Maintains the reliable performance you need to keep customers satisfied
- **Optional per-port redundancy**—Provides high availability and robust performance
- **Compatibility**—Allows this LIM to operate alongside other Stinger® LIMs—supporting different DSL technologies on the same chassis

Benefits

- **Increased revenue potential**—Offer the high-value data and video services that subscribers demand, while supporting POTS over the same copper pair
- **Reduced costs**—Minimize expenses using a high-density LIM that enables a mix of technologies on one card—eliminating the need for a forklift upgrade
- **Enhanced transport speeds**—Take advantage of the ADSL2+ software upgrade to deliver downstream data rate up to twice as fast as ADSL
- **Expanded DSL range**—Reach more subscribers cost effectively, with lower-speed ADSL2+
- **Easier provisioning**—Respond quickly to customers' changing needs, through simple adjustments to the technology on any port
- **Future-proofing**—Benefit from the advantages of ADSL2+, with an easy software upgrade that supports more advanced capabilities

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Technical Specifications

1. **Dimensions**
   - Height: 15 in (38.1 cm)
   - Width: 1.06 in (2.69 cm)
   - Depth: 9 in (22.8 cm)

2. **Weight**
   - 4.0 lb (1.8 Kg)

3. **Power Requirements**
   - 106 W maximum

4. **Operating Requirements**
   - Temperature:
   - FS+/FS/LS version: 32° - 131° F (0° - 55° C)
   - RT/CR version: -40° - 149° F (-40° - 65° C)
   - Relative humidity: 10% - 90 % (non-condensing)
   - Operating altitude: Up to 13,123 ft (4,000 m)

5. **Electromagnetic Compliance**
   - FCC Part 15 Class A
   - EN55022 Class A
   - AS/NZS3548 Class A
   - VCCI Class 1
   - CISPR Class A

6. **Certification**
   - Telcordia GR-63-CORE
   - (NEBS Level 1-3)
   - Telcordia-GR-1089-CORE
   - EN / IEC 60950

7. **Status Indicators**
   - ACTIVE (Green): LIM is fully operational
   - STBY (Orange): LIM is designated redundant spare
   - B Y PASS (Orange): LIM currently bypassed
   - FA U LT (Orange): Fatal error detected
   - Per Port (Green): Port is active, data being passed

8. **Interface Standard s**
   - ANSI T1.413 Issue 2 (full-rate)
   - ITU G.992.1 (G.dmt)
   - – Annex A (line sharing with POTS)
   - – Annex B (line sharing with ISDN)
   - – Annex C (coexist with Japanese ISDN)
   - ITU G.992.2 (G.lite)
   - – Annex A (line sharing with POTS)
   - – Annex C (coexist with Japanese ISDN)
   - ITU G.994.1 (G.hs)
   - ITU G.997.1 (physical layer management)
   - ITU-T G.992.3 ADSL2 specifications
   - ITU-T G.992.4 ADSL2-Lite specifications
   - ITU-T G.992.5 ADSL2+ specifications

9. **Performance**
   - G.dmt, Annex A: Maximum 8.064 Mbps downstream, 1.024 Mbps upstream
   - G.dmt, Annex B: Maximum 8.064 Mbps downstream, 1.024 Mbps upstream
   - Standard G.lite, Annex A: Maximum 1.536 Mbps downstream, 512 Kbps upstream
   - Turbo G. lite, Annex A: Maximum 3.424 Mbps downstream, 832 Kbps upstream
   - ADSL2/ADSL2+: supports standard downstream and upstream rates

10. **Range**
    - Maximum 28,000 ft (full rate mode)
    - Maximum 26,200 ft (G.lite mode)
    - ADSL2/ADSL2+: supports distances as per the standards

11. **Model Numbers**
    - STGR-LIM-AP-48: 48-port ADSL/ADSL2/ADSL2+ for Stinger FS+/FS and LS
    - STGRRT-LIM-AP-48: 48-port ADSL/ADSL2/ADSL2+ for Stinger RT
    - STGRCR-LIM-AP-48: 48-port ADSL/ADSL2/ADSL2+ for Stinger CR
    - STGR-SO-ADSL2P: software option to enable ADSL2/ADSL2+ mode
    - STGRSACR-SO-ADSL2P: software option to enable ADSL2/ADSL2+ mode for the Stinger CR

To learn more, contact your local Lucent Technologies Representative, Authorized Reseller, or Sales Agent.

Or, visit our Web site at www.lucent.com

Specifications subject to change without notice.

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