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

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