OC-12/STM-4 Trunk Modules for the Stinger® DSL Access Concentrator

This Stinger® trunk module offers higher transport speeds, up to 622 Mbps, along with the flexibility to meet a wide range of operating requirements efficiently and cost effectively. It gives you a choice of two high-speed fiber interfaces to the ATM core network, subtending capabilities for scalability and dual-port modules enabling redundancy. With the OC-12/STM-4 module installed, you can improve performance for sophisticated data applications. And compatibility with other Stinger® trunk modules allows you to support diverse services from a single chassis.

Applications

- High-capacity DSL aggregation
- APS support for increased reliability
- Support for lucrative, bandwidth-intensive services, such as video, multimedia and corporate data services
- Reliable bandwidth for premium services

Features

- **Transport speeds up to 622 Mbps**—Improves performance for high-value services, helping to keep customers satisfied.
- **Optical interface options**—Provides a choice of OC-12 or STM-4 technology to suit your requirements, with single-mode long-reach or intermediate-reach.
- **Intermediate-reach mode**—Supports Stinger® FS and FS+ chassis located up to 15 kilometers from the ATM core network.
- **Long-reach mode**—Extends support up to 40 kilometers from the ATM core network.
- **Subtending capabilities**—Allows multiple Stinger® FS and FS+ units to be cascaded for more efficient, cost-effective traffic aggregation.
- **Dual-port modules**— The OC12-ATM trunk module provides line redundancy by implementing linear 1+1 automatic protection switching (APS).
- **Compatibility**—Enables the OC-2/STM-4 trunk module to operate alongside other Stinger® trunk modules in the same chassis—to support diverse operating requirements.

Benefits

- **Enhanced revenue opportunities**—Take advantage of increased transport speeds to offer a full array of high-value services, including videoconferencing and broadcast TV.
- **Flexibility**—With this module's options for technology, reach, subtending and redundancy, it's easy to satisfy your unique operating requirements.
- **Increased efficiency**—Flexible configuration capabilities allow you to streamline operations and cut costs.
- **Scalability**—Cascade multiple units for cost-effective use of network resources.
- **Improved performance**—Keep customers satisfied with higher speeds and reliability.

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Technical Specifications

1. **Availability**
   Only available for the Stinger® FS and FS+ chassis equipped with version 2 or later control modules

2. **Dimensions**
   Height: 15 inches (38.1 cm)
   Width: 1.06 inches (2.69 cm)
   Depth: 5 inches (12.7 cm)

3. **Weight**
   1.5 lbs. (0.68 kg)

4. **Operating Requirements**
   Temperatures:
   FS+/FS version: 32°–131° F (0° to 55° C)
   Relative humidity:
   0–90% (noncondensing)
   Operating altitude:
   Up to 13,123 ft. (4,000 m)

5. **Electromagnetic Compliance**
   Agency approvals
   Electromagnetic Emissions Certifications: FCC Part 15 Class A, and CISPR Class A
   EN55022 Class A
   AS/NZS3548 Class A

6. **Interface standards**
   OC-12c:
   ANSI T1.105
   ANSI T1.106
   STM-4:
   ITU G.957 (optical)
   ITU G.709 (optical)

7. **Physical connectors**
   Industry-standard LC connectors

8. **Physical interfaces**
   Two UNI 3.0/3.1 cell-bearing OC-12c/ STM-4 622-Mbps ports (optical)

9. **Maximum modules**
   Fully supports one per chassis

10. **Other OC-12 standards**
    ATM Forum UNI 3.0/3.1
    ANSI T1M1.3/92-005R1
    Telcordia® TR-NWT-001112
    Telcordia® GR-253-CORE
    RFC 1595

11. **Other STM standards**
    ATM Forum UNI 3.0/3.1
    ANSI T1M1.3/92-005R1
    Telcordia® GR-253-CORE
    RFC 1595

12. **Certifications**
    Telcordia GR-63-CORE
    (NEBS™ Level 1-3)
    Telcordia GR-1089-CORE
    EN/IEC 60950

13. **Power Requirements**
    17 W

14. **Optical Specifications**
    Intermediate-Reach:
    Up to 15 kilometers (9.3 miles).
    TX power: -15 decibels referred to 1 milliwatt to -8dBm
    RX Sensitivity: -8dBm to -28dBm
    Nominal wavelength: 1310 nanometers
    Long-Reach:
    Up to 40 kilometers (24.9 miles)
    TX power: -2 decibels referred to 1 milliwatt to -3dBm
    RX Sensitivity: -8dBm, -28dBm
    Nominal wavelength: 1310 nanometers

15. **Model Numbers**
    STGR-TM-OC12 Two-port trunk module with OC12/STM-4 interface (single mode, intermediate reach) for operation at 622Mbps per port over single-mode fiber, at distances up to 15km (9.3 miles)
    STGR-TM-OC12-L Two-port trunk module with OC12/STM-4 interface (single mode, long reach) for operation at 622Mbps per port over single-mode fiber, at distances up to 40km (24.9 miles)

To learn more, contact your Lucent Technologies representative, authorized reseller, or sales agent. Or, visit our Web site. www.lucent.com

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