IMUX 56/64

ATLAS 550 Resource Module

Product Features

- Resource module for ATLAS 550

- Plugs on to any ATLAS 550 user module or resource host module

- Designed for disaster recovery applications

- BONDs multiple 56/64 kbps channels

- Implements BONDing Mode 1

- Capable of 16-128 kbps BONDing sessions

- Number of BONDed channels is user configurable from 2 to 32

- Can be used to restore Frame Relay or dedicated FT1/T1 links

- Supports DTR dialing, event driven, and terminal command BONDing

- Industry-leading five-year North American warranty

The ADTRAN® ATLAS™ 550 IMUX 56/64 module combines multiple ISDN B-channels using the BONDing Mode 1 protocol to support high bandwidth ISDN applications such as dial backup of frame relay or dedicated circuits. The inverse multiplexing (IMUX) capacity of the module is 32 DSOs or ISDN B-channels (2.048 Mbps total), which can be allocated according to the user's needs. For example, one bonding session in an ATLAS 550 could be configured to bond eight B-channels as a dial backup link to a remote 512 kbps device such as the ISU 512™. Similarly, the total bonding capacity of the module might be configured to implement two sessions at 512 kbps, one at 384 kbps, and five at 128 kbps. The table on reverse shows how many sessions can be supported at typical BONDing rates.

The ATLAS 550 IMUX 56/64 module has no external network or user interfaces and is a plug-on board for all user modules and the resource host module. Network traffic is passed to it though other ATLAS modules such as the Quad BRI module or the Dual T1/PRI module. Similarly, traffic is passed to the user through modules such as the Dual Nx56/64 module. This partitioning allows the IMUX 56/64 module to serve as a resource for multiple user devices.

When combined with the ATLAS 550, the IMUX 56/64 module can offer high speed dial backup around the network in frame relay applications. This same capability can be applied to providing dial backup of failed dedicated circuits or other network connections. Other applications that may call for the IMUX 56/64 module include image transfer and video conferencing.

The IMUX 56/64 module is compatible with the ISDN Dial Backup options of ADTRAN's ATLAS 800 Series, Express 5000 series products, and the IQ family of frame monitoring CSU/DSUs. It is also compatible with ISDN Access products such as ADTRAN's ISU 128® and ISU 512, as well as the ISDN dial backup options of the TSU family of T1 access devices.

ADTRAN®

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Product Specifications

Protocols
- BONDing mode 1

Capacity
- Up to 16 128 kbps sessions
- Total bandwidth of 2.048 Mbps available

Agency Approvals
- FCC Part 15, Class A, UL, Canadian UL (CUL)

Physical Dimensions
- **Weight:** 1.0 lb

Environmental
- **Operating Temperature:**
  0° to 45°C, 32° to 113°F
- **Storage Temperature:**
  −20° to 70°C, −4° to 158°F
- **Relative Humidity:**
  Up to 95%, non-condensing
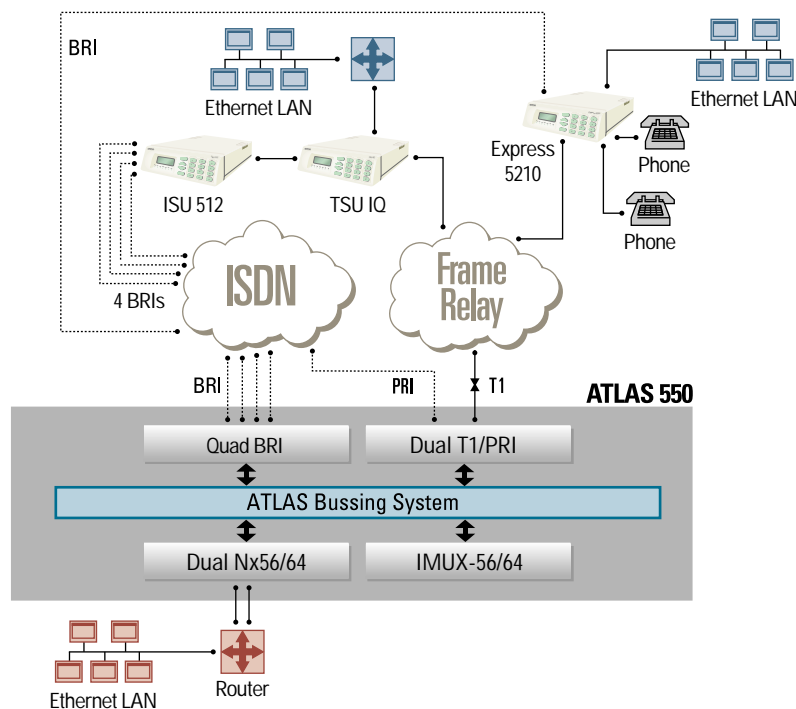
Product Includes
- User manual

Capacity

As an example, a single IMUX 56/64 module is capable of:

Session Type	Maximum
128k	16
384k	5
512k	4
1536k	1
2048k	1

In addition to the specific configurations described in the above table, it is possible to configure ATLAS for a combination of IMUX speeds, e.g., three 512 kbps sessions and four 128 kbps sessions. Multiple IMUX 56/64 modules can be installed in an ATLAS system to increase capacity.

Ordering Information

Equipment	Part #
IMUX 56/64 Module	1200326L1