



AL4700 ATM/SONET MULTIPLEXER/DEMULTIPLEXER



FEATURES

- Modular design with 14 module slots
- Each unit can house dozens of I/O channels
- Composite data rate up to 240 Mbps
- Full duplex or simplex operation
- Hot swappable redundant power supplies
- Channel interfaces for: PCM, analog, voice, time code, video, Ethernet, T1, asynchronous & others
- ATM over OC-3c communication interface
- Bright, high contrast front panel display with easy to use controls
- Ethernet (10/100/1000) remote control over SNMP
- 5.25" high rack mount chassis; sturdy construction
- Hot swappable interface modules

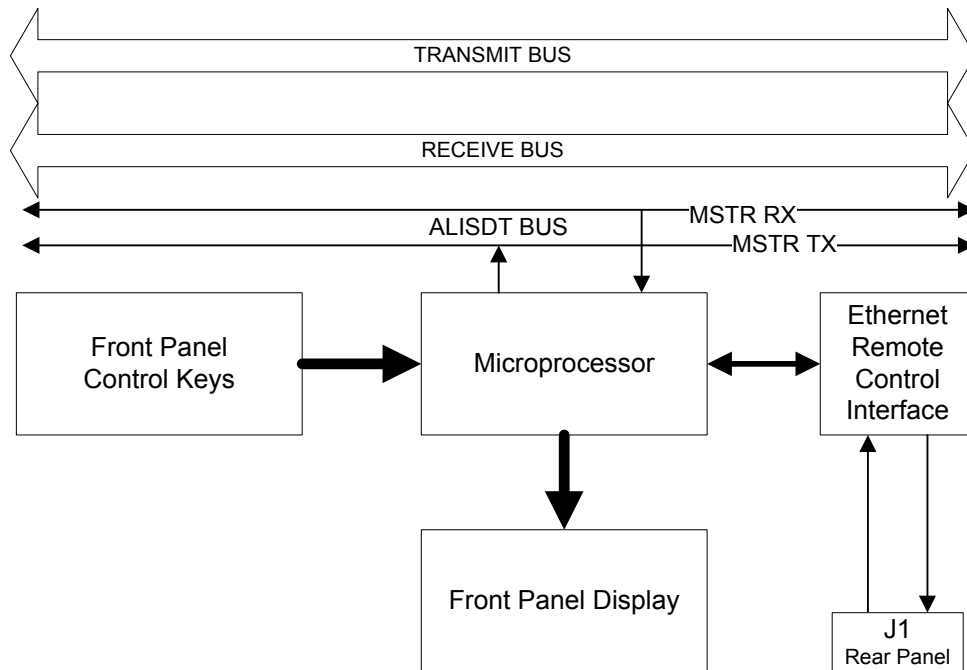
PURPOSE

The AL4700 was designed to address applications that require various signal types to be transported and received over ATM networks and can be configured to operate in a simplex or full duplex configuration. The AL4700 supports true multicasting applications where a single unit can simultaneously accept data from several different units on the network. Signal types such as PCM, video, channelized T1, etc. can be individually packaged into ATM cells for transport across the network. The AL4700 can also act as a gateway to bridge Ethernet packets across ATM networks.

On the transmit interface, the unit collects and transmits data as ATM cells over the installed network interface card. Each input channel is transmitted on a different ATM Virtual Channel ID (VCID) to allow an ATM switch to independently route the channels to other AL4700 or compatible units. On the receive side, the channels are configured to receive packets that are routed to the chassis through the ATM switch and are set to the same VCID. The receive channels will recreate and output the corresponding data stream. Refer to the separate channel module data sheets for more information.

With up to 14 available module slots, the unit can be configured to address specific application requirements. The plug-in interface modules are easily installed and the hot-swappable feature of the unit enables removal or insertion of modules without powering the unit down or interrupting existing data streams. Moreover, each time a card is installed in the chassis, initial power-on tests are performed and each card slot is read to determine whether or not a card is installed. Each installed card automatically initializes and re-activates its last programmed settings. Control of the unit is provided by use of front panel controls and display in conjunction with an easy to use GUI or via an external computer (10/100/1000 Ethernet).

FUNCTIONAL BLOCK DIAGRAM



CHASSIS SPECIFICATIONS

DIMENSIONS:

- 5.25" high x 19" wide x 14.5" deep
- Rack mount (standard EIA rack) or stand alone

WEIGHT:

- 15 lbs. without modules
- 8 oz. per module (approximately)

POWER:

- Hot swappable redundant power supplies (optional)
- 90 VAC to 240 VAC, single phase, auto select

ENVIRONMENTAL:

- 0° C to 40° C, operating temperature
- -20° C to 70° C storage temperature
- 15% to 95% relative humidity, without condensation

REMOTE CONTROL ETHERNET:

- RJ-45 connector
- 10/100/1000 BaseT