ATecoM
realizing visions

ATM Condor AC-1

ATM Multiplexer

Features

"n to 1" and "1 to n" capability

up to 5 Line Interfaces

Multiplexing @ ATM

Splitting @ ATM

Protection Switching @ ATM

Media Conversion

Rate Conversion

supports STM-1, DS3, E3, ATM25

Alarm Handling

The ATM Condor AC-1 is the perfect solution for the smooth and easy transition from today's SDH/PDH networks towards ATM technology. The ATM Condor eliminates the need for expensive ATM switches at truncing points, leading to a very cost effective and easy to maintain network upgrade.

The ATM Condor can be used as a 1:4 Splitter @ ATM level, duplicating the entire ATM cell stream received on the master interface and forwarding it to up to 4 slave interface, where on each interface parts of the ATM cell stream can be filtered out based on VPI/VCI values.
In the opposite direction the ATM Condor acts as a 4:1 multiplexer, aggregating the ATM cell streams arriving on the slave interfaces and forwarding the resulting ATM cell stream to the master interface. Each slave interface provides a VPI/VCI filter and additional a policer function to avoid an overload of the master interface.

Furthermore the ATM Condor can be used as a Protection Switch @ ATM level. When feeding two slave interfaces with the same ATM cell stream the ATM Condor can perform an automatic switchover in case of a user defined alarm condition. The alarm condition can be any combination of physical alarms on the interfaces, i.e. a loss of signal, 4 macro inputs feed by external equipment, like a MPEG decoder, or ATM OAM cells. Due to its flexible configuration the ATM Condor allows to build a protection switching capability working without control of a central management, which leads to a higher reliability and faster switchover in case of a failure. With special regard to the video applications the protection switching is performed typically in less than 1ms avoiding an outage of the video stream.

Supporting all common network interface types, like STM-1, DS3, E3 and ATM25 the ATM Condor can be installed in most of all network environments and be used as a rate- or media converter, building a bridge between different physical networks.

For local and remote control and monitoring the ATM Condor provides a RS232 port (Console) and a 10BaseT Ethernet port. Configuration can be either performed by command line or via SNMP.

The ATM Condor provides 5 user-configurable dry-contact closures to report alarms to external equipment. By the use of 4 macro inputs external alarms can be feed into the system forcing protection switching or a complete reconfiguration of the ATM cell filters and policers.

The ATM Condor system housing is a 19" 1RU rackmount enclosure.

Technical Specifications

Physical

- **Rack mountable (19" rack, 1RU high)**
- **Size**
  44.45 mm H x 434 mm W x 377 mm D
- **Weight**
  5.2 to 6.7 kg
- **Power**
  AC: 100 – 240 V~, 50 - 60Hz or
  DC: 36 – 72 V
- **Cooling**
  active

Environment

- **Temperature**
  Operation: 0°C to 40°C
  Storage: -20°C to 70°C
- **Relative Humidity**
  Operation: 10% to 90%, non-condensed
  Storage: 5% to 95%, non-condensed
- **Safety**
  CE Class B
- **EMC**
  89/331/EEC, 92/31/EC

Network Interface Modules

- **STM-1/OC-3**
  optical Single Mode long haul L1.2 (~ 80km)
  optical Single Mode long haul L1.1 (~ 40km)
  optical Single Mode short haul S1.1 (~15km)
  optical Multi Mode
  Electrical 75Ω
  UTP
- **G.703 E3**
- **G.703 DS3**
- **ATM-25**