

PAVMUX 155 Broadband, 4E1 & 100Base T

Description

The PAV Broadband 155 Mux has been designed to deliver broadband, service integrated access network infrastructures within the enterprise environment.

The PAVMUX 155 is an integrated access device designed to provide real broadband solutions. This product will aid the converging process from circuit-switched to packet-switched services. PAVMUX 155 combines IP and TDM channels inside and SDH frame that can be easily carried across the PAV Light 155 ODU. The bandwidth of the IP channel is configurable up to 100 Mb/s true "wire speed". The PAVMUX 155 has been designed to facilitate interfacing with IP and TDM equipment from other vendors, as all interfaces have been based on open standards.

An SNMP agent that supervises both the LAN and TDM ports manage the PAVMUX 155. The SNMP agent supports a number of MIB's and a PAVMUX 155 specific MIB. The SNMP agent can be accessed either by means of a Command Line Interface (CLI) or from a java application called PAVMASTER. CLI is a simple mechanism for communicating with the SNMP agent by connecting a VT100-terminal directly to a serial port or remotely over telnet. PAVMASTER is a management application that runs on a Unix work station or a PC. PAVMASTER provides a Graphical User Interface (GUI), and can be run as a plug in to an existing management platform (e.g. HP Open View). A dedicated Ethernet connector is provided for connecting the PAVMUX 155 into a separate IP or OSI based management network.

Working with PAVLight Free Space Optical Systems this provide totally modular solutions to a wide range of communications bandwidth and interface requirements.

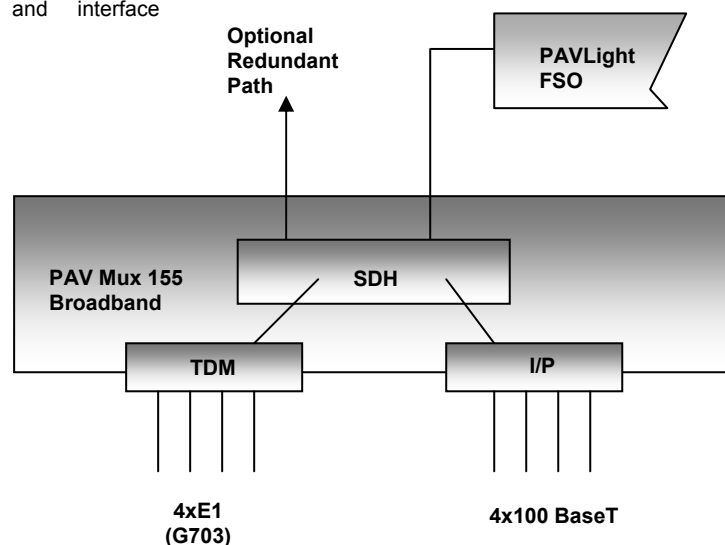


PAV MUX 155

Main Features

- Ethernet interface with support of layer 2 bridge / switch and Layer 3 routing features.
- Flexible support of TDM and IP traffic, both TDM and IP are mapped into SDH VC-12 frames.
- Different IP bandwidths can be assigned by using different number s of VC-12 containers in an inverse multiplexer scheme.
- Up to + / - 2ms delay variations can be tolerated for the selection of VC-12 containers. The inverse multiplexing is transparent to the rest of the SDH network.
- Fractional STM-1 supported, with full VC-12 granularity.
- STM-1 standard interface compatible with OH and VC termination, performance monitoring and path trace termination.
- Synchronisation of the unit can be taken either from the optical interface, 2 Mb/s interface, a dedicated synchronisation input or the local oscillator.
- Full 1 + 1 link redundancy available.
- Path protection by duplication of the optical interface and processing the POH in the VC-12.

Block diagram of PAVMUX system connections



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Specification

Electrical Interface

| | |
|----------------|---------------------------------|
| 2 Mb/s | G.703 and ISDN PRA |
| Bit Rate | 2048 Kb/s + / - 50ppm |
| Line Code | HDB3 |
| Impedance | 120 Ohm Balanced (75 via Balun) |
| Input Jitter | Acc to ITU-T G.823 |
| Output Jitter | Acc to ITU-T G.783 |
| Connector | RJ45 |
| Ethernet / LAN | 10/100 BaseT acc to IEEE 802.3 |
| Connector | RJ45 |

Optical Interface

| | |
|----------------------|-----------------------|
| Source Type | Laser diode |
| Wavelength | 1260 - 1360 nm |
| Modulation | 155 520 Kb/s |
| Launched Power (Typ) | -7 dBm / -12 dBm |
| Sensitivity | -21 dBm / -28 dBm |
| Attenuation Range | 0 - 12 dB / 0 - 12 dB |
| Dispersion | 96 ps / nm |
| Connector | FC/PC (SC available) |

Power

| | |
|-------------|----------------|
| DC | -36 to -72V DC |
| AC | 230V AC 50 Hz |
| Dissipation | <20 Watts |

EMC / Safety / Temp

| | |
|----------------|---------------------------------|
| EMC | EN 55022 Class B and EN 50082-2 |
| Safety | EN 60950 and EN 60825 |
| Operating Temp | -5 to + 45 degrees C |

Mechanics

| | |
|--------------------|-------------------|
| Dimensions (HxWxD) | 43 x 430 x 240 mm |
| Weight | < 2 Kg |

MTBF

| | |
|------|------------|
| MTBF | > 30 Years |
|------|------------|

PAV Data Systems maintain a continuous process of research and development, and as such, all specifications within this document are subject to change without notice.