

# PAVMUX 63 x E1 Multiplexer



## PAVMUX63 x E1 Capability

The PAV Mux has been designed to transport up to 63 x E1 G.703 2.048 Mb/s voice channels transparently over an SDH 155 Mb/s signal.

The PAV Mux base unit has been designed to offer unrivalled flexibility in creating multiple E1 architectures. In its 1U 19" rack mount this multiplexer can take up to 63 x E1 channels with minimal storage and is completely transparent to protocols such as G.704.

## SNMP

An SNMP agent that supervises the TDM ports manages the PAVMUX. The SNMP agent supports a number of MIB's and a PAVMUX 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

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.

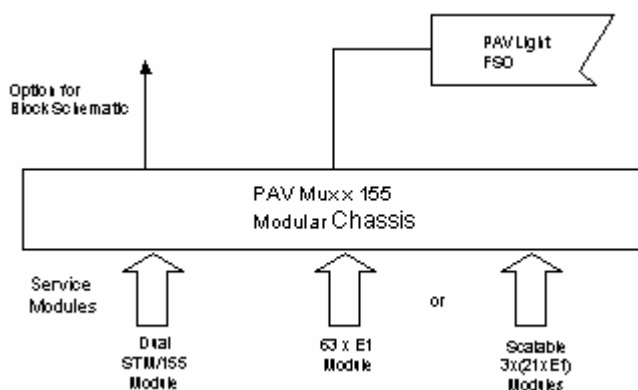
## PAVMASTER

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 the PAVLight FSO system, the PAV Mux gives remarkable flexibility, scalability and total cost of ownership.

## Main Features

- 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.
- Scalable solution offering n x E1 channels.
- Full SNMP management support.



# PAVMUX 63 x E1 - Specifications

<b>Electrical Interface</b>	
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
<b>Optical Interface</b>	
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)
<b>Power</b>	
DC	-36 to -72V DC
AC	230V AC 50 Hz
Dissipation	<20 Watts
<b>EMC /Safety / Temp</b>	
EMC	EN 55022 Class B and EN 50082-2
Safety	EN 60950 and EN 60825
Operating Temp	-5 to + 45 degrees C
<b>Mechanics</b>	
Dimensions (HxWxD)	43 x 430 x 240 mm
Weight	< 5 Kg
<b>MTBF</b>	
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.