

PATAPSCO's PacketBand-4 by KEYMILE

Highly-accurate clock-locked E1 circuits over Ethernet, IP or MPLS networks



- Legacy data with up to 2Mbps over packet networks
- Support of different packet network protocols
- Different clock modes
- All E1 ports can be separately clocked
- SFP cage
- LACP and RSTP (future option)
- Local and remote management via one software

PATAPSCO PacketBand-4 distributed by KEYMILE

PacketBand-4 delivers highly accuracy and stable clocks when delivering transparent, high-quality "leased lines" or pseudowires over packet networks for voice, data, fax and mobile applications.

PacketBand-4 is a high-quality, high-performance, well supported professional unit and available at prices competitive with inferior, and often unapproved equipment.

■ PacketBand-4 Connectivity

PacketBand-4 supplies a clear or transparent serial clock-recovered or synchronous "pipe" at speeds to 2.048Mbps across different types of packet networks.

It duplicates a traditionally-delivered E1 carrier leased line but uses low-cost and widely-available packet networks as the transport medium

■ Interface

Many X.21/V.35 applications use a channelised G.704 device at the central site to reduce interface and other costs.

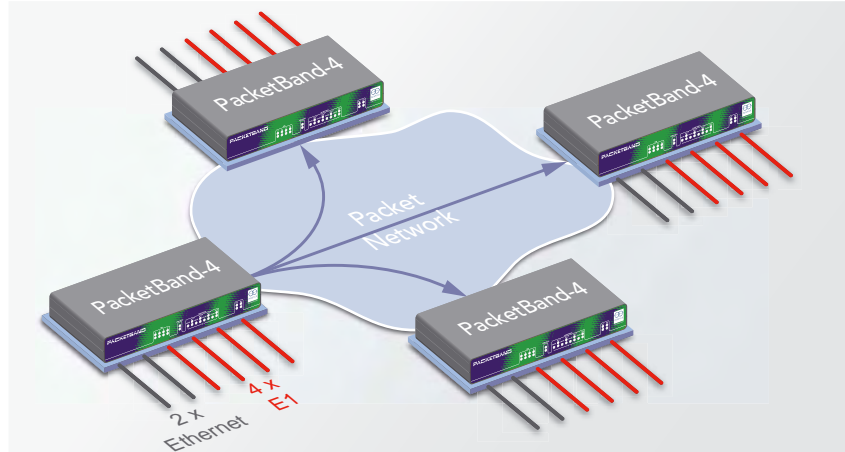
Using the PacketBand-VX at remote locations together with a "Grooming" version of the PacketBand-4 range means this scenario can also be replicated over packet networks.

■ Network Types

PacketBand-4 can run over a variety of different networks, from the best with management and QoS to the public Internet at the opposite extreme. As a general rule, the better; the network the better the circuit delivered by PacketBand-4.

■ The Protocol

PacketBand-4 supports a number of different packet network protocols. The user's choice for a particular network will be constrained by the network infrastructure. Each packet transmit-



ted consists of Ethernet packet headers and protocol packet headers.

■ Management

PacketBand-4 can be locally configured using DbLite or remotely configured using DbManager GUI software.

Technical Data

Clock	
Internal	Generated from one PacketBand, transmit via Ethernet and recovered by the other
External (one side)	Supplied by the CPE/DTE or leased line, transmit via Ethernet and recovered by the other
External (both sides)	Supplied by the CPE/DTE or leased line on both sides
Ethernet	
QoS	IP ToS IP Diff Serv, according to RFC2474 Ethernet Priority (configured in the range 0 – 7), Packet Prioritisation (802.1p)
Disordered packets	PacketBand has a buffer for each link and automatically re-orders packets
PDV/Jitter (base oscillator)	Up to 1 s (± 500 ms) of Packet Delay Variation (PDV) or network jitter
VLAN	VLAN tagging can be added to packets
LACP (Ethernet uplink)	According to IEEE 802.3-2005 (future option)
RSTP (Rapid Spanning Tree Protocol)	According to IEEE 802.1D-2004 (future option)
Connector	
E1 (G.703/G.704)	120 ohms, 4 x RJ45
Ethernet	2x 100BaseT or GbE, RJ45 SFP cage (SFP module to be ordered separately)
Clock	RJ45
Management	
DbManager	For local or remote management
Dimension and Weight	
h x w x d	44 mm x 225 mm x 200 mm, 1010 g
Power Supply	
Input voltage	95 - 240VAC; max. 0.2A 36 or 57VDC; max. 0.55A
Operation Environment	
Temperature range and humidity	-20 - 55°C, 10 - 90% non-condensing



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