

# 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.

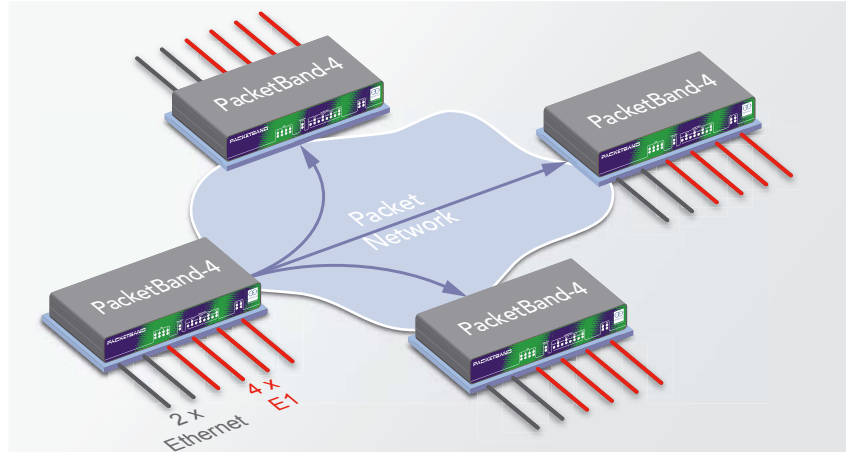
Using the PacketBand-VX at remote locations together with a "Grooming" version of the PacketBand-4 range means this scenario can also be replicated over packet networks.

## ■ 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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