

PATAPSCO's PacketBand-1 by KEYMILE

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



- Legacy E1 with up to 2Mbps over packet networks
- Support of different packet network protocols
- Multicast capability (option)
- Different clock modes
- SFP cage for optical WAN connection (option)
- Local and remote management via one software

PacketBand-1 distributed by KEYMILE

The PacketBand-1 provides reliable and transparent end-to-end E1 connectivity across packet networks with the ability to connect to both customer equipment (CPE/DTEs) and carrier leased lines.

Circuits can be established 24/7 or in response to requests from the attached equipment via control signals.

PacketBand-1 optional also supports multicast for simplex broadcast applications.

■ PacketBand-1 Connectivity

PacketBand-1 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

■ Multicast

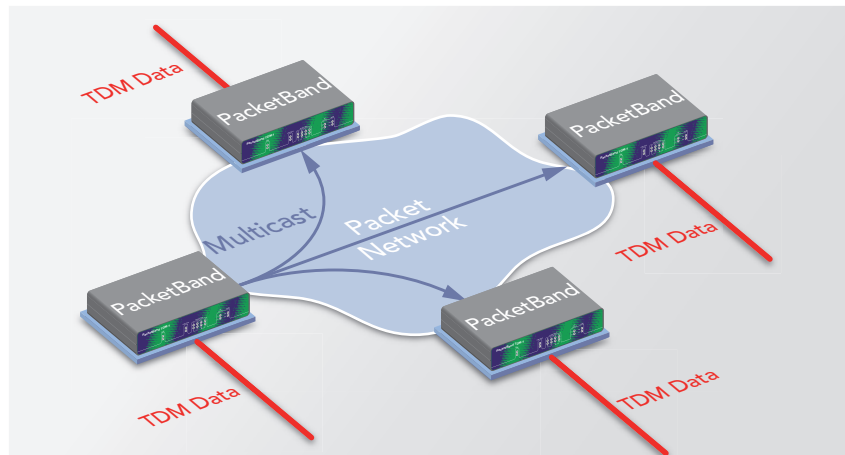
Multicast is an efficient method of transporting unidirectional (simplex) traffic from one main transmission location to multiple remote sites.

PacketBand-1 has the optional ability to transmit to a Multicast-enabled router and for remote PacketBands to "join" Multicast groups. If more than one Multicast session is available, each remote PacketBand can "leave" a session and "join" another.

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 E1 range means this scenario can also be replicated over packet networks.



Network Types

PacketBand-1 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.

The Protocol

PacketBand-1 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 transmitted consists of Ethernet packet headers and protocol packet headers.

Management

PacketBand-1 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 PacketBand has a buffer for each link and automatically re-orders packets
Priorisation	IP Diff Serv, Ethernet Priority (Up to four priority levels are available), Packet Prioritisation (802.1p)
Disordered packets	PacketBand automatically re-orders packets
PDV/Jitter (base oscillator)	Up to 1 s (+/- 500ms) of Packet Delay Variation (PDV) or network jitter
VLAN	VLAN tagging can be added to packets
Connector	
E1 (G.703/G.704)	120 ohms, RJ45, presents as DCE ITU G.706, CRC-4 on/off switchable
Ethernet	10/100BaseT or GbE, RJ45 Optional: SFP cage (SFP module to be ordered separately)
Management	
DbManager	For local or remote management
Dimension and Weight	
h x w x d	44 mm x 225 mm x 200 mm, 1.1 kg
Power Supply	
Input voltage	96 - 240 VAC; max. 0.2A
Operation Environment	
Temperature range and humidity	-20 - +55 °C, 10 - 90% non-condensing



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