KEYMILE
access to the world

PacketBand CH

PacketBand CH is a highly-featured 2 U chassis supporting 16 or 32 E1 circuits over Ethernet, IP or MPLS networks

PacketBand CH with 32 E1 ports and one AC PSU

- Legacy data with up to 2 Mbps over packet networks
- Support of different packet network protocols
- Dual load-sharing hot-swappable AC/DC PSUs (option)
- Different clock modes
- Multicast capability
- All E1 ports can be separately clocked
- SFP cage
- LACP and RSTP (future option)
- Local and remote management via one software

PacketBand CH 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 CH is complied with ITU-T recommendation Y.1413, IETF PWE3 draft standards CESoPSN, SAToP and CES draft IAs from MEF and MFA.

PacketBand CH Connectivity

PacketBand CH supplies a clear or transparent serial clock-recovered or synchronous "pipe" at speeds to 2.048 Mbps 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

Logical Links and Grooming

A Logical Link is the emulated cuircuit over the packet network between a pair of PacketBand devices containing up to 32 TDM channels. Thus a fully-populated chassis running G.703 clear-channel circuits needs a maximum of 32 Logical Links.

PacketBand CH supports groomed G.704 trunks, where multiple remote low speed PacketBands are presented in a single G.704.

Channelised, groomed and unstructured E1/T1s can be supported on a per interface basis with no constraints.

The PacketBand CH optionally supports up to 128 Logical Links.

Multicast

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

PacketBand **CH** 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.

Network Types

PacketBand CH 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 CH.

The Protocol

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

Technical Data

Clock	
Adaptive	Generated from one PacketBand, transmit via Ethernet and recovered by the other
External	generated from an external clock source
Multicast	Via Ethernet, clock recovery traffic is separated from the user traffic
Internal	If all other sources fail, the PacketBand can fall back to its internal oscillator
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)
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 Protovol)	According to IIEEE 802.32A-2004 (future option)
Connector	
E1 (G.703/G.704)	120 ohms, 16 x RJ45 (32 x RJ45 as option)
Ethernet	2 x 10/100BaseT or GbE, RJ45
	2 x SFP cage (SFP module to be ordered separately)
Clock	Optional: 2 x RJ45 (2.048 MHz or 2.048 HDB3)
	Optional: 2 x BNC connectors (10 MHz or 2 MHz clock sources)
Management	
DbManager	For local or remote management
Dimension and Weight	
h x w x d	88 mm x 225 mm x 320 mm, 10.5 kg
Power Supply Units	
Input voltage	96 - 240 V AC; max 1 A
	36 or 57 V DC; max 5 A
	Two hot-swappable PSUs as option
Operation Environment	
Temperature range and humidity	-20 - 55 °C, 10 - 90 % non-condensing

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