Transports clock-locked clear channel or structured E1/T1 circuits & TDM serial data over Ethernet / IP networks

PacketBand+ TDM-1VX
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Product Features

- Multi-standard TDM pseudowire support: CESoPSN, SATOP, TDM over IP
- Highly accurate & stable clock recovery
- G.823/4 Synchronization levels
- Single E1/T1 interface
- Two 10/100/1000Mbps RJ45 interfaces
- Single 100/1000Mbps SFP interface
- Single RS530 DB25 (female) port with cable detection for alternative V.35, X.21 interfaces
- Support for Jumbo Packets up to 9,600 bytes on Ethernet ports
- Port based VLAN, 802.1Q VLAN including Q-in-Q
- Link Aggregation Control Protocol (LACP)
- Ring Protection: MSTP, RSTP, STP
- SNMP v1, v2c and v3
- RMON and Syslog
- Management via CLI, Telnet, SSH, SSL, SNMP, Web GUI
- Authentication: Radius, TACACS+, 802.1x
- IGMP Snooping
- LLDP
- IPv6 and IPv4 dual protocols
- Firmware/Configuration backup/restore via Web/FTP
- TDM packets can be assigned IP DiffServ (DSCP) or ToS and 802.1p CoS values
- Supports full 802.1q tagging & associated 802.1p CoS prioritization levels
- All egress packets, incl. TDM links, can be prioritized across four output queues
- Various clocking options for different network types & clock recovery requirements
- "inter works" with other PacketBand and PacketBand+ family members
- Quality of Service: Supports 8 hardware queues with strict priority and WRR, shaping, policing. Per port bandwidth management
Specifications

Clock Recovery
- Capable of exceeding G.823/4 Synchronous Interface requirements (subject to network performance)

TDM Port (E1)
- 1 port
- User switchable E1/T1
- RJ45 connector
- Presents as DCE (cables for DTE)
- 120 Ohm
- 75 Ohm user-selectable via convertor cable
- G.703 unstructured
- G.704 channelized
- ITU G.706
- Selectable CRC4/non-CRC4
- HDB3
- Transparent to user signalling

TDM Port (T1)
- 1 port
- User switchable E1/T1
- RJ45 connector
- Presents as DCE (cables for DTE)
- 100 Ohm
- Unframed 1.544Mbps
- Framed 1.536Mbps CCS
- ESF or D4 selectable
- B8ZS or AMI selectable
- Transparent to user signalling

Serial Port
- Single RS530 DB25 female port (selectable via cable to V.35, X.21, RS530 or RS232) Speeds from 2400bps to 2.048Mbps

Ethernet Interfaces
- 2 x 10/100/1000Base-T RJ45
- 1 x 100/1000 Dual speed SFP slot

Local Management Port
- RJ12
- Asynchronous
- Auto-sensing to 115kbps
- Also remote access via packet network

Oscillator Performance
- Hold-over 24hrs 4ppb (typical)
- Aging per day 0.5ppb
- Temperature Stability 14ppb

IP & MAC Address
- MAC address per port, IP address, subnet mask and default gateway. Support for DHCP

Power (AC)
- Internal via IEC connector
- Auto-sensing 100VAC-240VAC 47-63Hz
- Max consumption 0.2A @ 230VAC

Power (DC)
- Internal via 4mm terminal block
- -19VDC to -72VDC
- Max consumption 0.35A @ -48VDC

Dimensions
- WDH: 8.86" x 7.87" x 1.73"
  [225mm x 200mm x 44mm]

Environment
- Operating Temperature -20°C to +65°C
- Humidity 10-90% non-condensing
PacketBand+ TDM-1VX

Ordering Information

PB-PLUS-TDM-1VX-AC
PB-PLUS-TDM-1VX-DC

- Single E1/T1 & X.21, V.35 or RS530 serial circuit over CESoPSN
- Two 10/100/1000Base-T ports
- Single 100/1000 SFP slots
- Single DB25 (female) connector
- AC or DC Power

Regulatory Compliance

- FCC Class A; CE Mark; CB Scheme Certified
- MET Mark (North American safety)
- EN55022:2010; EN55024:2010

Warranty

- 1 year hardware

Support

- Technical & Hardware Support, Training & Consulting Services

Warranty

- 1 year hardware

Support

- Technical & Hardware Support, Training & Consulting Services

Product Features | Specifications | Ordering Information | Optional Accessories

www.net2edge.com | Tel: +44 (0) 345 810010
PacketBand+ TDM-1VX

Optional Accessories

CABLE-TDM-STR
PRI/BRI, T1, E1 Straight through

CABLE-TDM-X
PRI/BRI, T1, E1 crossed

CABLE-VX-V35-MRAC-DCE
V35 MRAC Serial Cable DCE

CABLE-VX-V35-MRAC-DTE
V35 MRAC Serial Cable DTE

CABLE-VX-V11-DCE
V11 Serial Cable DCE

CABLE-VX-V11-DTE
V11 Serial Cable DTE

CABLE-VX-RS530-DCE
RS530 Serial Cable DCE

CABLE-VX-RS530-DTE
RS530 Serial Cable DTE

SINGLE-RMK-S
19” rack mount kit

DUAL-RMK-S
19” rack mount kit for 2 units side by side