PacketLINK is a product range offering TDM over IP providing single and multi-port connectivity solutions for Nx64kbps E1 services across IP networks, including either simple point-to-point links or more complex WAN infrastructures.

The PL1800 and PL1820 are designed as multi-service access platforms, for PDH over IP applications. E1 frames can be mapped/de-mapped into / from IP packets. An adaptive clock recovery method for Ingress PDH (PSN->TDM) clock generation is implemented to support E1 (ITU-T G.823) Jitter performance.

The PL1800 and PL1820 provide cost-effective applications for traditional circuit-switched systems over IP. It is easy to interconnect existing systems over IP that are used to carry data, voice and video. With high precision clock recovery technology, the PL1800 and PL1820 are capable of supporting 2G/3G/4G backhaul and provide smooth services. PL1800 and PL1820 can transparently transport proprietary signaling required to support PBX features, including call conference, call forwarding and SS7. Customers can easily apply and enjoy better integration of TDM and IP devices with lower network expense. With a pair of PL1800 or PL1820 and guaranteed internet bandwidth, cost savings are certain, together with the assured QoS of voice based on interconnections of TDM equipment.

- Supports IETF RFC4553 Structure-Agnostic TDM over Packet (SAToP), Metro Ethernet Forum MEF8
- Use Raw Encapsulation method for PDH payload over Ethernet packets
- Supports Circuit Emulation Service over Ethernet Networks
- Comply with IETF draft standard for CESoPSN and SAToP; Metro Ethernet Forum MEF8 IA
- Supports both Point-to-Point and Point-to-Multipoint operation
- Supports 8/16 Independent Adaptive Clock recovery block for Ingress PDH (PSN->TDM) clock generation. Recovered clock jitter is compliant to ITU-T G.823 (E1 Jitter Control)
- Independent configurable jitter buffer depth to compensate up to 250ms of Packet Delay Variation
- Lost packets processing / compensation via PW (Pseudo Wire) control field Sequence Number
- PDH LOS detection triggered PW L field or payload AIS generation at Egress direction (TDM->PSN)
- Provide Subscriber side Data traffic bandwidth control to guarantee enough TDM payload bandwidth
- Configurable IEEE 802.3 DA/SA assignment
- LED alarm display for E1 Power failure status
- 8/16 x E1 NRZ Serial Interface with LOS/AIS detection
PacketLINK - E1 TDM over IP

E1 Interfaces
- Standards: ITU-T G.703, G.704, G.706, G.732
- Ports: 8 (PL1800) or 16 (PL1820) Ports
- Data Rate: 2.048Mbps ± 50ppm
- Connector: 120ohm RJ45
- Line Coding: HDB3

Ethernet Interface Support
- WAN Port: 100Base-TX Ethernet
- Interface: RJ-45
- LAN Port: 100Base-TX Ethernet

Management
- Console, Telnet

Environmental
- Dimensions: 268 x 290 x 44 mm (D x W x H)
- Power AC: 85 to 264V @47/63Hz
- Power DC: -72V to -36V
- Operating Temperature: 0 to +50°C
- Storage Temperature: 0 to 85°C
- Humidity: 5 to 95% non-condensing

8-Port E1 over IP
- PL1800 built in AC and DC PSU

16-Port E1 over IP
- PL1820 built in AC and DC PSU