

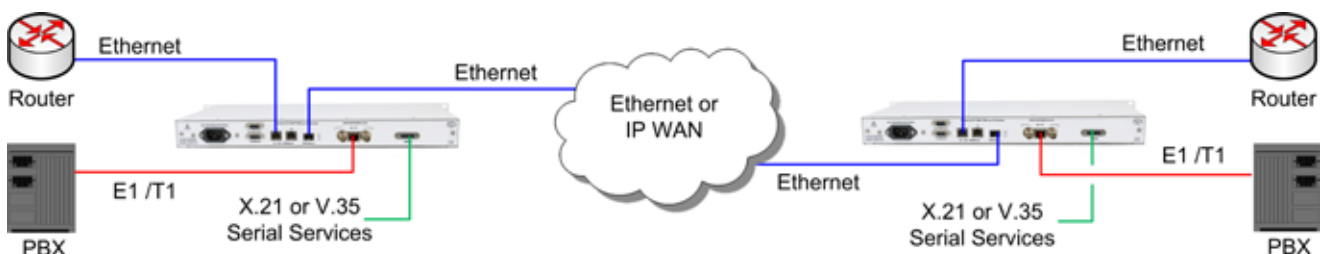
- Modular platform for TDM services extension over Ethernet or IPWAN networks
- Flexible connection of up to 4x Serial (n x 64Kbps up to 4Mbps) or 4x E1/T1 interfaces or a combination of both
- Ethernet LAN 'break-out' connection(s) also available
- Ethernet connections provisioned via 6x RJ45 and a single SFP flexible media port, offering Copper and/or Fibre LAN/WAN connections up to 1Gbps
- 802.1q VLAN support with 802.1p priority queuing
- RSTP support
- Ethernet Jumbo Frame Support (up to 10Kbytes)
- SSH and TACACS+ for secure authentication
- Telnet & SNMP Management (Local & Remote) with extensive performance monitoring
- Ethernet OAM support, initially 802.3ah



PLI400F Pseudowire Fractional E1/T1 and Serial over IP or Ethernet Services

The PLI400F is a member of the PacketLINK product family, offering pseudowire TDM circuit extension and backhaul over an IP or Ethernet network. The PLI400F can interface either 2 or 4 Telco E1/T1 services or alternatively 2 or 4 Serial (n x 64Kbps up to 4Mbps) services over an Ethernet or IP backbone network. The PLI400F also offers the possibility of two Serial plus two E1/T1 ports for maximum flexibility of service connection.

In parallel, Ethernet 'LAN-side' connections may be broken out from this WAN service, with prioritisation to ensure uninterrupted traffic flow to the TDM service connections and thereby secure effective clock synchronisation.



Auto negotiation and auto MDI/MDI-X cross-over switching is supported on the RJ-45 LAN interfaces. A SFP port offers a variety of multi-mode and single-mode fibre interfacing options. Ethernet ports may be individually configured as LAN or WAN ports. Ethernet 'Jumbo' frames (up to 10Kbytes) are supported.

In addition to Telnet & SNMP, Carrier Ethernet OAM (initially 802.3ah) is supported, enabling Service providers to manage and monitor Ethernet services right up to the customer delivery point. Support for 802.1ag and Y.1731 OAM standards will be offered by software update.

VLANs are supported in two ways. In normal mode, VLAN tagged frames are passed unmodified; however when VLAN support is enabled, VLAN tag-based switching occurs whereby access may be controlled using VLAN IDs.

The unit is password protected for Telnet access for security, and for SNMP is configured with a primary and multiple back-up NMS stations. SNMP access will only be accepted from an authorized NMS.

Specifications

Copper IP Port Specs		Serial Port Specs	
Port	6x 10/100/1000baseT port with auto-negotiation and Jumbo frame support	Port	2x Cisco compatible serial 60-way D female supporting EIA530, X21, V35 or V36
Interface	RJ45 (Auto Crossover MDI/MDIX)	Interface	DCE or DTE
Operating modes	Auto Negotiate, 10M, 100M, 1000M Full Duplex, Half Duplex	Line Rate	Nx64kbps up to 4Mbps
LEDs	Link Activity, Speed	Encapsulation	SAToP RFC4553
1000Base-X Fibre Interface		EI/TI Port Specs	
SFP Port	IEEE802.3z 1000Base-X	Mode	2x EI or TI
Interface	Dual LC	Presentation	EI 120 ohm RJ45, TI 100 ohm RJ45
LEDs	Link Activity, Speed	Line Rate	EI 2.048Mbps, TI 1.544Mbps
SFP 1000Base SX		Timing	Internal, loop or through
Wavelength	850nm Multimode	Encapsulation	HDLC, CESoPSN
Max Rx input power	0 dBm	Clock Recovery	G.823 Traffic *
Rx sensitivity	-17 to 0 dBm	Compliance & Approvals	
Optical loss budget	7.5dB (550m)	Safety	EN60950, IEC-60825-1 (Class I Laser Eye Safety)
Tx power	-9.5 to -3 dBm	EMC	EN55022, EN50082
SFP 1000Base LX		Environment	
Wavelength	1300nm Singlemode	Temp	0 to 50 deg C
Max Rx input power	0 dBm	Humidity	0 - 95% RH, non condensing
Rx sensitivity	-17 to 0 dBm	Pressure	86 - 100 kPa
Optical Loss budget	9.5dB (10km)	Storage Temp	-40 to 100 deg C
Tx power	-9.5 to -3 dBm	Power supply	
		-48VDC	-36 to -72 VDC, 125 - 65mA
		AC Mains	100 - 250 VAC
			50 - 60 Hz, 60 - 25mA
		Power consumption	10 watts approx when operating
		Packaging	
		Type	1U 19 inch rackmount
		Dimensions	435 x 213 x 44 (W x D x H)

* G.823 Synchronisation version also available on request