![ecl logo]
Your Partner for Growth

1Net Your Path for **Growth**

NPT-1200

Metro Access Packet Transport

- Carrier-class converged multiservice packet transport
- Lowest TCO for network transition from TDM to packet
- True, independent native packet and TDM processing
- Minimized OPEX by use of existing work procedures
- Transport grade QoS, resiliency, OAM and synchronization
- Seamless integration with optical networks
- Minimal power consumption and footprint
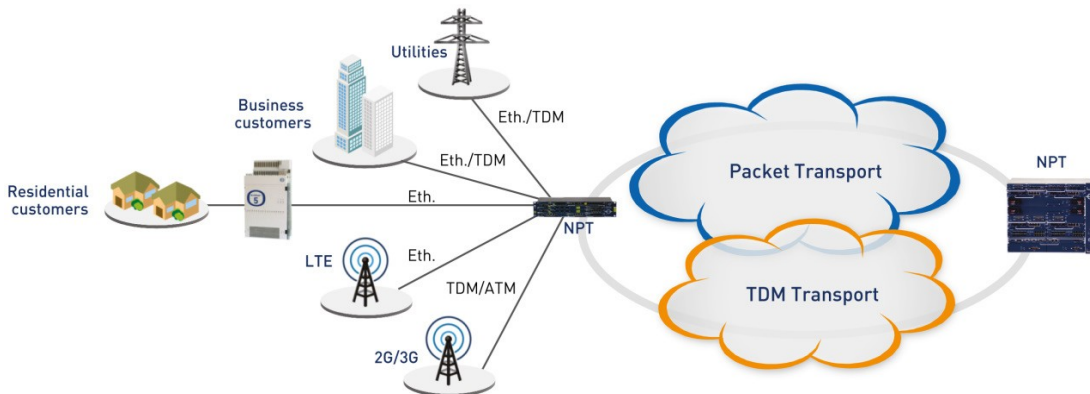- Unified multilayer management

The NPT-1200 is a future-proof and fully redundant converged multiservice packet transport platform optimized for the metro access aggregation and access nodes.

As a carrier class packet transport, it combines transport network reliability and ease of management with packet efficiency. Seamles and cost effective transition from TDM to packet is gained through an All-Native architecture, processing both packet and TDM traffic natively but supporting also Ethernet/MPLS-TP over TDM (EoS/MoT) and TDM over Ethernet (CES). The All-Native architecture provides cost-effective support for mixed packet and TDM traffic while preserving the existing network structure and work procedures.

The NPT-1200 integrated optics support allows seamless integration with next generation optical networks.

By supporting the most advanced carrier class Ethernet-based services (L1, L2, MPLS-TP) with high 10GE fanout, the NPT-1200 is well positioned to support cellular backhaul transition/ migration plans from TDM to Ethernet or for a new build-out of LTE and 4G networks with enhanced 1588V2 support. The NPT-1200 supports full triple play services for residential NGN applications. Its unique support of utility targeted interfaces and rugged design make it an ideal solution for NG transport networks.

As with all ECI's transport products, the NPT-1200 is managed by the unified multilayer LightSoft® NMS.

Specifications

Interfaces, Synchronization, Topologies, and Protection

Packet interfaces	10/100/1000 Mbps,10 GE
Ethernet and MPLS-TP technologies	Native Ethernet and MPLS-TP over Ethernet (MoE), Ethernet over PDH (EoP) Ethernet over SDH (EoS) , MPLS over Transport (MoT), CES SAToP, CESoPSN
Synchronization	SyncE, 1588v2, TDM (T3/T4)
SDH, PDH and PCM interfaces	STM-64/16/4/1, DS3/E3/E1, FXO, FXS, 2/4W E&M, V24, V35, V36 ,V11, RS422, RS449,C37.94,OMNI , and G.703 64K
Protection and restoration	IO Hardware protection (IOP) ,G.8032 Ethernet Ring Protection (ERP), MPLS-TP, Dual FRR, 1:1 Linear protection, PW Redundancy, APS, SNCP, MS-SPRing
Topologies	Mesh, multi-ring, ring, star, linear

System Capacities

Packet capacity	100 Gbps & 200Gbps		
Packet throughput	70 Gbps & 140Gbps		
TDM capacity	40 Gbps with 4/3/1 connectivity (100% LO granularity)		
Max. Ethernet/MPLS-TP	Layer 1 52 x 10/100 FE 84 x 100/1000 FX	Layer 2 52 x 10/100 FE 84 x 100/1000 FX 10/20 x 10GE	MPLS-TP 52 x 10/100 FE 84 x 100/1000 FX 10/20 x 10GE
Max. SDH / PDH / PCM	2 x STM-64 15 x STM-16 39 x STM-4 48 x STM-1	30 x DS3/E3 630 x E1	72 x PCM
Pluggable SFP/CSFP/SFP+ support	Electrical, Colored C/DWDM, non-colored, Compact SFP (CSFP) and bidirectional SFPs		
HW redundancy	For all common units/cards		

Other Specifications

Power input	-40 VDC to -75 VDC
Power dissipation	Typical: 300 W
Operating temperature range	-25°C to +70°C -13°F to 158°F
Operating RH range	5% to 95%
Environmental standards	ETS 300 019-1-3 Class 3.3, Temperature hardened
Safety	ETS 300 019-1-1 Class 1.2
EMC	ETS 300 019-1-2 Class 2.3
Management	EN 60950/2000, according to LVD Directive 72/23/EEC EN 60825 -1&2
Physical dimensions (mm)	NPT-1200 basic unit: 88 (H) x 465 (W) x 263 (D) Expansion Unit: 88 (H) x 465 (W) x 263 (D)

ECI Telecom Ô^¦ãã'åÆlite Partner;
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