



Your Partner for Growth



# NPT-1020

## Access Packet Transport



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

The NPT-1020 is a future-proof converged multiservice packet optical transport platform optimized for access nodes.

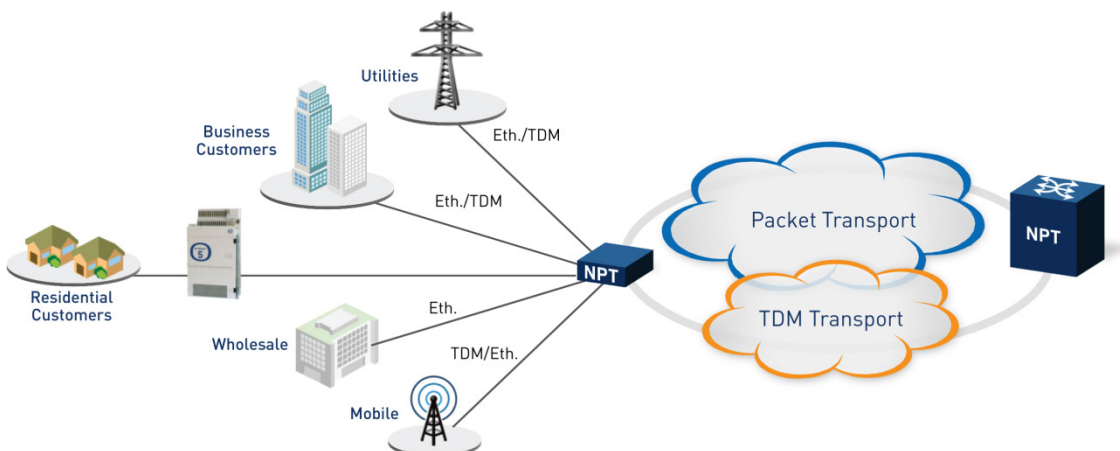
As a carrier class packet optical transport, it combines transport network reliability and ease of management with packet efficiency in an extremely compact 1RU enclosure. Seamless and cost effective transition from TDM to packet is gained through an All-Native architecture, processing both packet and TDM traffic natively but also supporting 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-1020's integrated muxponder supports high-capacity services, including storage, lambda, and video.

Moreover, support of OTN and colored interfaces provides seamless integration with next generation optical networks.

By supporting the most advanced CE2.0 carrier class Ethernet-based services, the NPT-1020 is well positioned to support multi G 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-1020 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-1020 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
Packet services	MEF CE2.0 based E-Line (EPL, EVPL), LAN (EPLAN, EVPLAN) , E-Tree (rooted multipoint) (EP-Tree, EVP-Tree), E-Access MPLS-based services VPWS, VPLS, P2MP Multicast (LSP) Tree
OTN	OTU-1, OTU-2, OUT-2e
Storage	Fiber Channel 1/2/4/8/10
Video	SDI, HD-SDI, DVB-ASI
Synchronization	SyncE, 1588v2, TDM (T3/T4)
SDH, PDH and PCM interfaces	STM-4/1, DS3/E3/E1, FX0, FXS, 2/4W E&M, V24, V35, V36, V11, RS422, RS449, C37.94, OMNI, and G.703 64K
Protection and restoration	G.8032 Ethernet Ring Protection (ERP), LAG, MPLS-TP FRR, Dual FRR, Linear protection, PW redundancy, APS, SNCP, MS-SPRing
Topologies	Mesh, multi-ring, ring, star, linear

### System Capacities

Packet throughput	60 Gbps (10GE based configuration)/10 Gbps (GE based configuration)		
Max. OTN capacity	60 Gbps		
TDM capacity	2.5 Gbps with 4/3/1 connectivity (100% LO granularity)		
Max. Ethernet/MPLS-TP	44 x 10/100 FE, 16 x 100/1000 FX, 4 x 10GE (60 Gbps configuration)		
Max. CES	4 x STM-1/OC-3	210 x E1/T1	72 x PCM
Max. OTN	24 x OTU-1, 6 x OTU-2		
Max. Storage	24/12/8/3/3 x Fiber Channel 1/2/4/8/10		
Max. Video	9 x SDI, HD-SDI, DVB-ASI		
Max. Native SDH/PDH/PCM	6 x STM-4, 16 x STM-1	12 x DS3/E3, 273 x E1	72 x PCM
Pluggable SFP/CSFP/SFP+ support	Electrical Colored C/DWDM, non-colored and bidirectional SFPs		
HW redundancy	1:1 Power supply		

### Other Specifications

Power over Ethernet (PoE+)	Up to 30 W
Power input	-40 VDC to -75 VDC, 90 VAC to 220 VAC
Power dissipation	Typical: 50 W
Operating temperature range	-25°C to +70°C, -13°F to 158°F
Operating RH range	5% to 95%
Environmental standards	IEEE 1613 (electric utility substations), IEC 61850-3 (electric utility substations), ETS 300 019-1-3 Class 3.3, EN55022
Safety	EN 60950/2000, according to LVD Directive 72/23/EEC EN 60825 -1&2
EMC	EN 300 386-2, 1TR9
Security	RADIUS (client authentication), SSH 2.0, SW integrity checking (SHA-2), SFTP, ACL, IEEE802.1x
Management	End-to-end management of all layers and services
Physical dimensions (mm)	Basic unit: 44 (H) x 465 (W) x 263 (D) / 1.7" (H) x 18.3" (W) x 10.4" (D) Expansion Unit: 88 (H) x 465 (W) x 263 (D) / 3.5" (H) x 18.3" (W) x 10.4" (D)

Specifications subject to change without notice



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### ABOUT ECI TELECOM

ECI Telecom is a leading global provider of intelligent infrastructure, offering platforms and solutions tailored to meet the escalating demands of tomorrow's services. Our comprehensive 1NET approach defines ECI's total focus on optimal transition to Next Generation Networks through the unique combination of innovative and multi-functional network equipment, fully integrated solutions, and a wide spectrum of services.

For more information, visit [www.ecitele.com](http://www.ecitele.com).

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