

## Gigabit Ethernet NID

(2) 10/100/1000Base-T RJ-45 Ports + (2) 100/1000Base-X SFP Slots



The Transition Networks' Net2Edge LIB-304 is a multiservice NID that provides SLA assurance & advanced fault management that is MEF CE 2.0 compliant. IEEE 802.1ag Service OAM, ITU Y.1731 Performance Monitoring & IEEE 802.3ah Link OAM are standard features. The LIB-304 supports advanced features such as IPv6 & IPv4, VLANs, QoS, bandwidth allocation, ring protection, jumbo frames & numerous security features.

### Features

- Fan-less design
- Optional MPLS-TP
- SNMP v1, v2c, & v3
- IPv6 & IPv4 management support
- VLAN (IEEE 802.1Q) Q-in-Q (C-Tag / S-Tag)
- RMON & Syslog
- OAM Support: IEEE 802.3ah Link OAM, IEEE 802.1ag Service OAM & ITU-T Y.1731 Performance Monitoring
- RFC-2544 & ITU-T Y.1564 Traffic Generation & Reports
- Protection: ITU-T G.8032/G.8031 IEEE RSTP, MSTP, LACP, Logical Link Forwarding
- IEEE 1588v2 (ptp)
- Future optional Sync-E capability
- Jumbo Frame Support (10K)
- Zero Touch Provisioning
- Wire speed loopbacks
- OTDR
  - Resolution of 10 meters or better
  - Accuracy of 50 meters or better
- Operates with any conventional MSA SFPs (Multisource Agreement)
  - Low power dissipation <1.5W
- SNMP management interface

### Specifications

Standards	IEEE 802.3 IEEE 802.3u IEEE 802.3z IEEE 802.3ab IEEE 802.3x IEEE 802.3ad IEEE 802.1p IEEE 802.1Q IEEE 802.1w IEEE 802.1s IEEE 802.1x IEEE 802.1AB IEEE 802.3ah IEEE 802.1ag RFC 2544 / ITU-T Y.1564 ITU-T Y.1731 ITU-T G.8032/G.8031 IEEE 1588-2008 (v2) (ptp)
Ports	(2) 10/100/1000Mbps Base-T ports (2) 100/1000Mbps or SGMII SFP slots (1) RS232 Console Management port
Dimensions	Width: 7.48" [190 mm] Depth: 8.54" [217 mm] Height: 1.71" [43.5 mm]
Power Input	Single 100-240VAC; 50-63Hz Auto-sensing PSU
Power Consumption	10 Watts (max)
Environment	Operating: -20°C to +50°C Storage: -40°C to +70°C Humidity: 5% to 90% (non-condensing)
Weight	2.2 lbs. [1 kg]
Certifications	CE
Warranty	1 Year

### Applications

- MEF 2.0 Certified Services
- Mobile Backhaul
- Business Ethernet
- Fiber to the Premise (FTTP)
- SLA Enforcement Performance Statistics
- Migration to Packet Networks
- QoS for Differentiated Services
- Small Cell / DAS
- Cloud Services

#### Power Cord Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU; Ex: LIB-304-NA

#### -NA = Country Code

-NA = North America  
-LA = Latin America  
-EU = Europe  
-UK = United Kingdom  
-SA = South Africa  
-JP = Japan  
-OZ = Australia  
-BR = Brazil

### Ordering Information

#### LIB-304

(2) 10/100/1000Base-T ports  
+ (2) 100/1000Base-X SFP slots (empty)

#### Optional Accessories (sold separately)

#### SFP Modules

#### CE-225-N-MPLS-TP-SW

Software update to enable MPLS-TP capability

### Software Features

- MEF 2.0 E-LINE (EPL & EVPL) E-LAN (EP-LAN & EVP-LAN) E-ACCESS (ACCESS EPL & EVPL) E-TREE (EP-TREE & EVP-TREE)
- UNI or NNI configuration
- TOS/Diffserv
- Quality of Service (IEEE 802.1p): 8 queues; strict priority & WRR, shaping, policing, P-bit & DSCP
- Management via CLI, Web, SS/SSL & SNMP (v1, v2c & v3)
- Port configuration, status, statistics & monitoring
- RADIUS, TACACS+ & ACL
- Remote backup / restore configuration
- Remote firmware upgrades
- Alarms via Syslog & SNMP
- Remote loopbacks
- L2CP
- LLDP
- LLF
- Diagnostic Monitoring Interface - SFF-8472
- Dying/Last Gasp
- Port Mirroring
- Link Aggregation Control Protocol (LACP)