

Liberator™ NID: LIB-305-LTE

MEF CE 2.0 Compliant NID with 4G/LTE WAN capability

LIBERATOR



Product Features

- The LIB-305-LTE is a multi-service NID with 4G/LTE wireless capabilities that provides SLA assurance & advanced fault management that is MEF CE2.0 compliant. IEEE 802.1ag Service OAM, ITU Y.1731 Performance Monitoring & IEEE 802.3ah Link OAM are standard features
- The LIB-305-LTE supports advance features such as IPv6 & IPv4, VLANs, QoS, bandwidth allocation, ring protection, jumbo frames & numerous security features
- Internal 4G/LTE wireless capability
- Fan-less design
- Optional MPLS-TP
- SNMP v1, v2c, & v3
- IPv6 & IPv4 management support
- VLAN (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)
- Wire speed loopbacks
- Zero Touch Configuration capability

Applications

- MEF 2.0 Compliant Services
- Mobile Backhaul
- Business Ethernet
- Fibre to the Premise (FTTP)
- SLA Enforcement Performance Statistics
- QoS for Differentiated Services
- 4G / LTE wireless backup functionality
- Cloud Services
- Rapid service revenue via 4G/LTE WAN capabilities

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 for the Ethernet ports
- TOS/Diffserv
- Quality of Service (802.1p): 8 queues; strict priority and WRR, shaping, policing, P-bit and 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)
- Configurable revertive/non-revertive 4G/LTE back-up capabilities

Specifications

Power: Internal AC power supply

- 1 x 100-240 VAC; 50-63Hz Auto-sensing PSU
- Maximum power consumption 25 watts

Ethernet Ports

- 2 x 10/100/1000Mbps Base-T ports
- 2 x 100/1000Mbps or SGMII SFP ports
- 1 x 100/1000/2500Mbps or SGMII SFP Port

Local Management Port

- RJ45

Physical

- Width: 442mm
- Depth: 190mm
- Height: 43.5mm
- Weight (excluding packaging) 1.6kg

Environment

- Operating Temperature -20°C to +55°C
- Storage Temperature -40°C to +70°C
- Humidity 5-90% non-condensing (operating)

Standards & Compliance

Supported Standards

- IEEE 802.3 for 10Base-T
- IEEE 802.3u for 100Base-TX
- IEEE 802.3z for 1000Base-X
- IEEE 802.3ab for 1000Base-T
- IEEE 802.3x for Flow control
- IEEE 802.3ad for LACP (Link Aggregation Control Protocol)
- IEEE 802.1p for COS (Class of Service)
- IEEE 802.1Q for VLAN Tagging
- IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol)
- IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol)
- IEEE 802.1x for Authentication
- IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
- IEEE 802.3ah Link OAM
- IEEE 802.1ag Service OAM
- RFC 2544 / ITU-T Y.1564 Traffic Generation & Reports
- ITU-T Y.1731 Performance Monitoring
- ITU-T G.8032/G.803
- IEEE 1588-2008 (v2) Precision Time Protocol (PTP)

Wireless Standards*

- FDD LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B26/B28
- TDD LTE: B38/B40/B41
- WCDMA: B1/B2/B3/B4/B5/B8/B19
- GSM: 900/1800
- **LTE Version** 3GPP E-UTRA Version 10
- **Bandwidth** 1.4/3/5/10/15/20MHz
- **Antenna** DL MIMO, supports Rx-diversity

Electrical Characteristics

Output Power

- Class 3 (23dBm \pm 2dB) for LTE FDD
- Class 3 (23dBm \pm 2dB) for LTE TDD
- Class 3 (24dBm +1/-3dB) for TD-SCDMA
- Class 3 (24dBm +1/-3dB) for UMTS
- Class E2 (27dBm \pm 3dB) for EDGE 850/900MHz
- Class E2 (26dBm +3/-4dB) for EDGE 1800/1900MHz
- Class 4 (33dBm \pm 2dB) for GSM 850/900MHz
- Class 1 (30dBm \pm 2dB) for GSM 1800/1900MHz

Additional Information

*For specific LTE variants compatible with your country and LTE frequency requirements, please contact your Sales representative, or Net2Edge directly.

SFPs

Net2Edge offers a comprehensive range of SFPs please contact us for details.

*Dependent on Regional Variants. Contact Net2Edge for further details.