MODEL 9145ELB
10 Gigabit Multi-Port Network Interface Device (NID)

Canoga Perkins 9145ELB Multi-Port 10 Gigabit Network Interface Device is equipped with 16 UNI Ports and a modular 2 Port 10 Gigabit Ethernet Network Interface supporting configurable 2 NNI/ENNI Ports or 1 NNI/ENNI Port + 1 UNI Port. It provides a comprehensive set of features needed for Metro Ethernet Services while being exceptionally easy to deploy and manage.

Using a sophisticated VLAN multiplexing system, the 9145ELB provides comprehensive EVC and Class of Service deployment options to accomplish your service objectives. Performance Testing, EVC availability monitoring are just two of the many tools and features available to ensure that your customers receive the service level they expect.

The industry leading 9145E NID Family supports Metro Ethernet Services Subscriber and Network interfaces that range from 10 Mbps to 100 Gbps, including GR-3108 Hardened and Outdoor models. The entire family supports a common set of features and functions, enabled by a scalable network processor architecture. As with all the members of the Family, the 9145ELB shares all of these advantages.

VLAN Service Multiplexing interleaves Subscriber traffic onto the Network Ports. Subscriber Traffic entering each UNI is classified, policed, queued and scheduled for transmission on the Network Port for transport. This allows Service Providers to simplify provisioning and configuration, leading to quicker installation and troubleshooting.

Advanced diagnostic and performance monitoring features of the 9145ELB quickly identifies specific local loop and customer termination issues, so when field dispatches are to correct specific issues, not just troubleshoot. This increases service availability and reduces OPEX.

The 9145ELB's advanced feature set has the power for today's and tomorrow's most demanding and sophisticated services - including per EVC traffic stats, Service Availability Monitoring, Performance Measuring, Link OAM, Service OAM and Packet filtering. Future features are a simple software update away. Certified to NEBS Level 3, it is ready for Customer Premises, Central Office and POP Site deployments.

FEATURES:

- **16 User Ports - 16 10/100/1000 UTP, 16 100/1000 SFP or 8 UTP + 8 SFP, Modular Network Ports, Local Ethernet Management OOB Port**

- **2 Network Ports – 10 GbE. One Network Port is Configurable as a User Port**

- **Link Protection on Network Ports - 802.3ad Aggregation (LAG)**

- **Wide Range of Standard, Single Fiber BiDi, CWDM, DWDM and UTP SFP/SFP+ Optics Available**

- **Advanced Management Access using SNMP v1/v2c/v3, Telnet, RMON and Local Management Ports**

- **CanogaView® Element Management System with Performance Collection System for real-time management of NIDs and Collection of Service KPIs**

- **Ethernet Jumbo Packet Support – Transport, Diagnostics, Availability Monitoring and Network Performance Measuring**

- **VLAN Tagging, Stacking and P-Bit Marking, QoS Level Traffic Shaping and Policing**

- **Remotely Activated and Configurable Loopback Diagnostics**

- **Advanced OAM Functions including Link OAM, Service OAM, Y.1731 On-Demand Throughput Measurements, Service Activation, Performance Monitoring (PM), Service Availability Monitoring (SAM) and Continuous Performance Monitoring**

- **E-Line, E-LAN and E-Access Services Support**

- **120/240VAC, 48VDC and 24VDC Modular Redundant Power Supplies**

NEBS LEVEL 3 CERTIFIED

CWDM COMPATIBLE

CANOGA PERKINS

World Headquarters

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Multi-Port 10 Gigabit Network Interface Device (NID)

Specifications

- **PHYSICAL**
  Dimensions
  - 1.75" H x 17.5" W x 10.5" D
  - (44mm x 210mm x 290mm)
  Weight
  - 12 lbs (5.4 kg)
  Mounting
  - Single Unit Rack Mount (19" & 23")
  - Tabletop

- **OPERATING ENVIRONMENT**
  - 0° to +50°C (32° to 122° F)
  - 5% to 90% RH (non-condensing)

- **POWER**
  AC Power Supply
  - 100 VAC to 240 VAC, 50 to 60 Hz
  - Auto Ranging, 120W
  DC Power Supply
  - 48 VDC: 36 VDC to 72 VDC, 120W
  - 24 VDC: 20 VDC to 32 VDC, 120W

- **MANAGEMENT**
  - SNMPv1, SNMPv2c and SNMPv3
  - Serial Terminal
  - CanogaView Smart Element Manager
  - Telnet, RADIUS Client

- **INTERFACES**
  - User – 16 1 GbE Ports (10/100/100 UTP, 100/1000 SFP)
    - 16 UTP,   16 SFP,   8 UTP + 8 SFP
  - Network – Multi-port Interface Modular
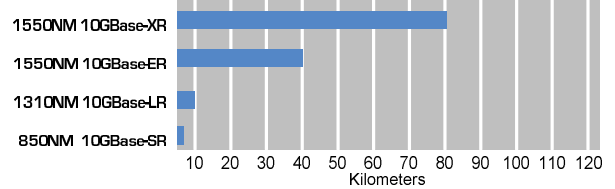   - 2 Port 10 Gigabit Ethernet, SFP+
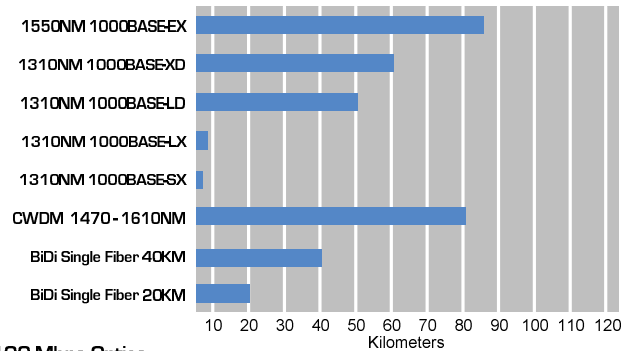 - Ethernet Management – 1 Port
    - 10/100 UTP, Auto MDI/MDIx
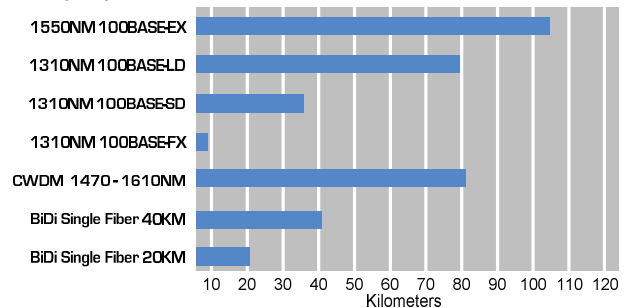 - Serial Craft – 1 Port, 9.6-19.2Kbps Async

- **Optical Distances**

  <u>10 Gigabit Optics</u>

Type	Kilometers
1550NM 10GBase-XR	~80
1550NM 10GBase-ER	~40
1310NM 10GBase-LR	~10
850NM 10GBase-SR	~1

  <u>Gigabit Optics</u>

Type	Kilometers
1550NM 1000BASE-EX	~85
1310NM 1000BASE-XD	~60
1310NM 1000BASE-LD	~50
1310NM 1000BASE-LX	~10
1310NM 1000BASE-SX	~2
CWDM 1470 - 1610NM	~80
BiDi Single Fiber 40KM	~40
BiDi Single Fiber 20KM	~20

  <u>100 Mbps Optics</u>

Type	Kilometers
1550NM 100BASE-EX	~105
1310NM 100BASE-LD	~80
1310NM 100BASE-SD	~35
1310NM 100BASE-FX	~10
CWDM 1470 - 1610NM	~80
BiDi Single Fiber 40KM	~40
BiDi Single Fiber 20KM	~20

  These are typical distances on SMF-26 fiber. Actual distance is dependent on fiber type, condition and configuration. Please contact your Canoga Perkins' sales representative for current SFP and SFP+ offerings.

- **REGULATORY COMPLIANCE**
  - UL, cUL (UL 60950, CAN/CSA C22.2 No. 60950) EN 60950
  - EN 60825-1, IEC 60825-1
  - FCC Part 15B, Class A, ICES-003 Class A
  - C-Tick (AS/NZS 3548)

CANOGA PERKINS

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TL9000   MEF

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