

# MODEL 9145EMP

## 1 Gigabit Multiport Network Interface Device (NID)

Canoga Perkins' 9145EMP Multi-Port Network Interface Device (NID), equipped with 4 UNI Ports and 2 NNI/ENNI Ports, provides the comprehensive set of features needed for Metro Ethernet Services while being exceptionally easy to deploy and manage.

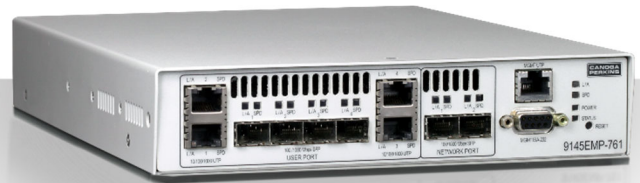
Using a sophisticated VLAN multiplexing system, the 9145EMP provides comprehensive EVC and Class of Service deployment options to accomplish your service objectives. Performance Testing, EVC availability monitoring are just two of the many tools and features available to ensure that your customers receive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

- **4 User Ports, 2 Network Ports, Local Ethernet Management OOB Port**
- **Dual UTP/SFP on User Ports, SFPs on Network Ports.**
- **10/100/1000Base-Tx Tri-Speed Auto-Negotiation and Remote-End Unattended Set-up for Speed and Duplex**
- **100 Mbps, Gigabit, CWDM and Single Fiber BIDI SFP Optics Options**
- **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**
- **AC, DC and Redundant Power Configurations**
- **NEBS Level 3 Tested and Certified**



World Headquarters

20600 Prairie Street, Chatsworth, CA 91311-6008

Phone (818) 718-6300 • Fax (818) 718-6312 • [www.canoga.com](http://www.canoga.com)

# MODEL 9145EMP

## 1 Gigabit Multiport Network Interface Device (NID)

### Specifications

#### ● PHYSICAL

##### Dimensions

1.75" H x 8.3" W x 11.5" D  
(44mm x 210mm x 290mm)

##### Weight

5.5 lbs (2.7 kg)

##### Mounting

Single and Dual Unit Rack Mount  
Tabletop  
Wall Mount

#### ● 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, 35W

##### DC Power Supply

36 VDC to 72 VDC, 35W

#### ● MANAGEMENT

SNMPv1, SNMPv2c and SNMPv3  
Serial EIA-232-E Direct Terminal  
CanogaView Smart Element Manager  
RADIUS Client  
Telnet

#### ● INTERFACES

##### User – 4 Ports

10/100/1000 UTP and 100/1000 SFP

##### Network – 2 Ports

100/1000 SFP

##### Ethernet Management – 1 Port

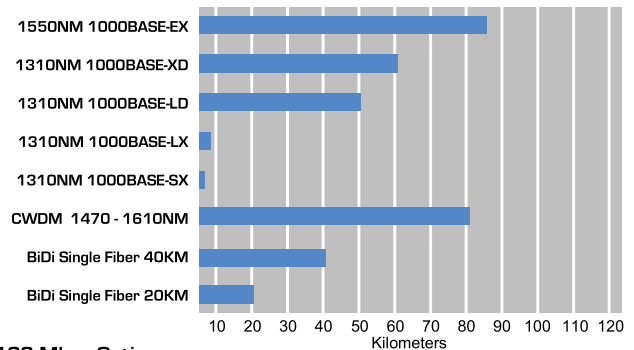
10/100 UTP

##### Serial Craft – 1 Port

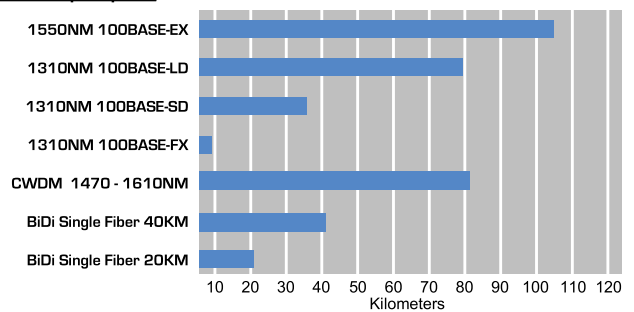
EIA/TIA-RS-232-E, 9.6-19.2Kbps Async

#### ● Optical Distances

##### Gigabit Optics



##### 100 Mbps Optics



These are typical distances on SMF-26 fiber. Actual distance is dependent on fiber type, condition and configuration. Please read Canoga Perkins' Application Note entitled "How Far Can I Reach" for additional information.

Please contact your Canoga Perkins' sales representative for current SFP offerings.

#### ● REGULATORY COMPLIANCE

ETL, ETLc (UL 60950 CAN/CSA C.22 No. 60950, EN/IEC 60950)  
IEC 60825-1  
FCC Part 15B/ICES-003/VCCI Class A  
C-Tick (AS/NZS 3548)  
EN 55022 Class A, EN 55024  
EN 61000-3-2, EN 61000-3-3  
NEBS Level 3  
GR-3108 Class 2 (Hardened Models)  
GR-3108 Class 4 / GR-487 (Outdoor Models)

#### World Headquarters

20600 Prairie Street  
Chatsworth, CA 91311-6008  
Phone (818) 718-6300 • Fax (818) 718-6312  
www.canoga.com



60538008