

MODEL 9145E100G

100 Gigabit Network Interface Device (NID)

Cloud Computing, Over-the-Top (OTT) Video and Mobile Back-Haul are key bandwidth drivers in today's network environment. Reports of new 100 Gigabit Ethernet deployments between data centers are frequent. Now, 100 Gigabit Ethernet in Metro Ethernet Networks, Mobile Back-Haul, and Internet ISP to MAP connectivity are here.

100 Gigabit Ethernet Switches/Routers are expensive and cumbersome to deploy as Demarcation Devices. DWDM and OTN Systems are also expensive and do not provide the packet and service performance functions needed to for a successful Metro Ethernet Service. Canoga Perkins 9145E100G is a low cost Layer 2 Ethernet Demarcation Device supporting the advanced functions needed to deliver MEF compliant Metro Ethernet Services and the OAM tools needed for proactive Network Operations and Performance Management.

Terminating Metro Ethernet Services reliably and profitably is more than just dropping off a 100GbE signal. An Intelligent Demarcation Device is required to condition customer traffic for transport and to manage that transport in order to sustain high performance services. The 9145E100G provides the comprehensive set of features needed while being exceptionally easy to deploy.

The industry leading 9145E NID Family provides Metro Ethernet Services with Customer and Network Interface speeds from 10 Mbps to 100 Gbps models. The entire family implements a common set of features and functions, enabled by a scalable Communication Processor and CPU architecture. The 9145E100G shares all of these advantages. New features are a simple download, future proofing your service.

As with all members of the 9145E Family, the 9145E100G provides demarcation at the UNI and NNI/ENNI Interfaces for both protected and unprotected links. The 9145E100G is an independent arbitration device that unquestionably sectionalizes problems and provides a Service Level Performance test point to quantify performance of the Service Providers Network versus Operator Network on a Customer EVC.

With its low cost, the 9145E100G is an attractive demarcation device for Layer 3 IP and MPLS Services, extending Routed ports from the Core Switch to the Customer Prem, and as demarcation device for Layer 1 Optical Ethernet Private Line Service.



FEATURES:

- All the Features and Functions of the 9145E 1GbE and 10GbE NIDs in a 100GbE Package
- 100GbE Wireline Speed and Throughput, 100GbE CXP User Port, 100GbE CFP Network Port
- 10GbE SFP+ Multi-Purpose Port for LAG Protected Link Operation using Dual NIDs – No Single Point of Failure on the Link!
- 10/100 UTP Ethernet Management Port (OOB)
- 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
- Redundant Modular Power Supplies
- Modular, Hot Swappable Smart Fans
- NEBS Level 3 Tested and Certified



World Headquarters

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Specifications

- **PHYSICAL**

- Dimensions

- 3.5" H x 17.5" W x 12.0" D
(89mm x 445mm x 304mm)

- Weight

- 23.6 lbs (2.7 kg)
Includes Chassis, Fan Module,
Power Supplies, and Optics

- Mounting

- 19" & 23" Rack Mount
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 - 250W

- DC Power Supply

- 48V: 36 VDC to 72 VDC, 250W

- **MANAGEMENT**

- SNMPv1, SNMPv2c and SNMPv3
Serial EIA-232-E Direct Terminal
CanogaView® Element Management System
Telnet

- **INTERFACES**

- Network Port

- 100GbE CFP

- User Port

- 100GbE CXP

- Multi-Purpose Port

- 10GbE SFP+

- Ethernet Management Port

- 10/100 UTP

- Serial Craft Port

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

- **Optical Distances**

- Please contact your Canoga Perkins' sales representative for current CXP, CFP and SFP+ Optics Module Availability.

- **REGULATORY COMPLIANCE**

- TUV-SUD (EN 60950-1, CAN/CSA C22.2 No. 60950) EN 60950
EN 60825-1, IEC 60825-1
EN 55022, EN 55024
EN 61000-3-2, EN 61000-3-3
FCC Part 15B, Class A
ICES-003 Class A
C-Tick (AS/NZS 3548)
NEBS Level 3

- **9145E Ethernet NID Family Products**

- 9145E: 10/100/1000 NID
9145E Outdoor NID: 10/100/1000 NID, GR-3108 Class 4, GR-487
9145E10G: 10 Gigabit NID
9145E100G: 100 Gigabit NID
9145EMP: Gigabit Multi-Port NID
4 10/100/1000 User Ports
2 10/100/1000 Network Ports
9145ELB: 10 Gigabit Multi-Port NID
16 10/100/1000 User Ports
2 10GbE Network Ports

- CanogaView® EMS: Network Element Manager for 9145E Family



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