S4140
10G Carrier Ethernet NID
(4) 1000/10GBase SFP+ Ports

TRANSITION NETWORKS®

Transition Networks' Carrier Ethernet solution delivers the promise of simplicity deployed. This comprehensive solution includes CE 2.0 compliant demarcation devices, access switches, and the Converge™ element and service management platform.

With the goal of enabling new service generating revenue, Transition Networks' S4140 10G network interface device is designed to support a wide range of MEF-based Carrier Ethernet services for Mobile Backhaul, Business Ethernet, Cloud Assurance and Carrier Exchange E-Access Services.

Ordering Information

S4140
(4) 1000/10GBase SFP+ ports
Includes 19" Rack Mount ears.

Optional Accessories (sold separately)

SFP Modules
SFPs, copper Ethernet cables and fiber patch cables

Power Supplies

CES-PSU-AC
AC power supply for S4140 and S4224
(100-250 VAC)

CES-PSU-DC
DC power supply for S4140 and S4224
-21V DC to -72V DC / +21V DC to +72V DC

Features

- (4) 1000Base/10G SFP+ ports
  Any port can be network or client

- E-Line (EPL and EVPL)
  E-LAN (EP-LAN and EVP-LAN)
  E-Access (Access EPL and EVPL)

- Blended Ethernet Service Activation testing supporting RFC2544 and "services" testing via EVC bandwidth policies or CoS ingress and egress tags with 1-way delay measurements reported in 1-milliseconds

- Hardware based Precision Time Protocol 1588v2 with clock off-set reporting and monitoring between grandmaster and slave with nanosecond accuracy

- Multi-CoS 802.1p and IPv4, IPv6, DiffServ/TOS to ensure any level of service between operator and customer networks

- Hardware based Service OAM (IEEE 802.1ag) and Performance Monitoring (ITU Y.1731) ensure accurate service performance delivery with two and one-way delay measurement reporting.

Specifications

Standards	IEEE 802.3 IEEE 802.3u IEEE 802.3z IEEE 802.3x IEEE 802.3ad IEEE 802.1D IEEE 802.1w IEEE 802.1s IEEE 802.1Q IEEE 802.1p IEEE 802.1ad IEEE 80.1AB IEEE 802.3ah IEEE 802.1ag IEEE 1588-2008 (v2) Precision Time Protocol (PTP) ITU G.8261 Sychronous Ethernet ITU Y.1731 PM
Data Rate	SFP ports 1Gbps/10Gbps
Max MAC Addresses	32K
Max Frame Size	10,056bytes
Status LEDs	Power, Port Activity, Port Duplex
Dimensions	Width: 17.378" [441.33 mm] Depth: 10" [254 mm] Height: 1.75" [44.45 mm]
Power Supply	Redundant, hot-swappable AC 100-250 VAC DC 21-72 VDC
Environment	Operating: 0°C to 50°C
Compliance	Safety: UL listed EMI: EN55022 Class A, CE
Warranty	5 Years Hardware

Features Continued

- Bandwidth policies enforced by rate limiting the port, VLAN ID or EVC with configurable CIR, CBS, EIR, EBS, with real-time green/yellow/red/discarded frame monitoring.

- ITU G.8031 linear APS and G.8032 (v1 and v2) rings offer sub 50ms failover.

- Strong security authentication/verification including SSH/SSL RSA/DSA certificate generation, TACACS+, RADIUS, HTTPs, SNMP v1, v2c and v3, up to 15 different levels of user administrative access rights

- IPv6 and IPv4 dual-stack addressing

- Dual firmware banks/images

- Configuration backup/restore

- Dying / Last gasp

- Industry Standard CLI

- InterVLAN routing

CARRIER ETHERNET MEF Certified Compliant™