

S4224 Series

Managed 10 Gigabit Ethernet Access/Aggregation Switch

(24) 100/1000Base-X SFP Slots + (4) 1000Base/10GBase-X SFP+ Slots



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' S4224 access switch with (24) 100/1000Base SFP slots and (4) 1000Base/10G uplinks 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.

Features

- (24) 100/1000Base SFP slots
- (4) 1000/10GBase Dual Speed SFP+ slots; 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 802.1AB IEEE 802.3ah IEEE 802.1ag IEEE 1588-2008 ITU G.8261 ITU Y.1731 PM |
| Data Rate | 100/1000Mbps and 10G |
| Max MAC Address | 32K |
| Max Frame Size | 10,056bytes |
| Status LEDs | Power, Port Activity, Port Duplex |
| Dimensions | Width: 17.38" [441.33 mm] Depth: 10" [254 mm] Height: 2.63" [66.68 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 |



Ordering Information

S4224

(24) 100/1000Base-X SFP slots with
(4) 1000Base/10GBase-X SFP+ slots
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
-21VDC to -72VDC / +21VDC to +72VDC

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