Summit® X250e Series

Summit X250e Series Switches—Advanced Fast Ethernet converged edge stackable switches with ExtremeXOS® modular operating system.

Features

- High availability to help prevent network outages
- Automated provisioning to meet growing demand of converged network applications
- Policy-based routing and switching to customized traffic flow
- Comprehensive security using defense-in-depth
- Ease of management

Target Applications

- Edge PoE and non-PoE switch providing high-density 10/100BASE-T to the desktop in a network running ExtremeXOS from the core to the edge
- Carrier Ethernet edge switching with 100BASE-X provides advanced fiber connectivity to the customer for both AC and DC powered environment

Extreme Networks® Summit X250e series switches are based on ExtremeXOS, the revolutionary core-class operating system. When deployed at the network edge, Summit X250e switches benefit from the highly robust and modular architecture of ExtremeXOS and provides high levels of availability, resilience and simplified management of your entire network at an affordable price.

As an edge switch offering optimum support for converged applications for enterprise and Carrier Ethernet networks, Summit X250e provides low latency line-rate performance and offers flexible connectivity options including the 802.3af standards-based Power over Ethernet (PoE) and 100BASE-X SFP fiber optical interfaces.

Extreme Networks continues its tradition in simplifying network deployment through consistent use of common hardware and software. Summit X250e switch utilizes the compatible non-blocking hardware technology found in Extreme Networks Summit X450 series switches, delivering line-rate IPv6 capabilities for Fast Ethernet LAN deployments.

The Summit X250e series supports a full range of Layer 2 – 4 features on each port. Each switch offers 40 Gigabits per Second (Gbps) stacking interfaces in 1RU format. Optional redundant power supplies are provided with each switch to help secure against power anomalies, allowing a continuous operational network that is crucial in meeting your business needs.

High Availability

Summit X250e series switches provide high availability by employing a modular operating system, incorporating resilient software features and supplying hardware redundancies.

High availability protocols such as the Ethernet Automatic Protection Switching (EAPS) that failover in less than 50 milliseconds provide toll-quality voice and picture-perfect video.

Layer 2 and Layer 3 resiliency protocols such as Open Shortest Path First (OSPF), Extreme Standby Router Protocol (ESRP) and Virtual Router Redundancy Protocol (VRRP) add to enhanced availability.

Summit X250e switches offer dual stacking interfaces to provide high-speed 40 Gbps stacking bandwidth. SummitStack™ is designed to support converged services such as Voice-over-IP (VoIP) and video by its highly available architecture providing rapid failover capability. SummitStack supports up to eight units in a stack, mixture of the units with Summit X250e, Summit X450e, Summit X450a and Summit X450 switches.

Redundancies in power supplies, uplink ports, operating system and configuration images further contribute to continuous availability.

Automated Provisioning for Converged Networks

Summit X250e switches provide advanced traffic management capabilities and allow the large scale rollout of equipment such as IP telephones, wireless APs and other devices that require power from the LAN connection. With line-rate IPv6 support at the network edge, Summit X250e prepares for IPv6-capable edge devices as they become available.

Summit X250e series switches set the stage for convergence applications by allowing enterprises to add new access devices in a non-disruptive plug-and-play fashion. Voice and wireless services can be easily implemented without major network upgrades. Summit X250e supports automated provisioning of VoIP using LLDP and event based command scripting capability. It allows dynamic configuration of voice VLANs and Quality of Service (QoS). This auto configuration capability allows you to configure VoIP phone settings such as voice VLAN settings, call server IP address configuration, etc. This level of simplicity in managing network changes can help reduce operating expenses.

Policy-based Routing and Switching

Policy-based routing and switching on a Summit X250e switch provides a flexible mechanism for network administrators to customize the flow of traffic. Access Control Lists (ACLs) configured on the switch can redirect packets away from their normal path to another physical switch port. Packets are selected according to their ACL match conditions such as class of service, VLAN, IP addresses, protocol, port number or other criteria.

Comprehensive Security Using Defense-in-Depth

Summit X250e switches, when combined with Extreme Networks Sentriant® security solutions, allow you to adopt a defense-in-depth strategy in securing your network on multiple levels.

User authentication and host integrity checking enforces admission and usage policies on dedicated and shared ports at the edge of the network. The powerful technology, sFlow®, offers threat detection and response by providing continuous and simultaneous monitoring of application-level traffic flows on all interfaces. In the event of an attack, network managers can dynamically reconfigure the switches to close vulnerabilities, hardening the network without shutting down network operation.

The Universal Port scripting framework available in Summit X250e lets you implement Dynamic Security Profiles which in conjunction with Network Login allows you to implement fine grained and robust security policies. Upon authentication, the switch can load dynamic ACL/QoS for a user or group of users, to deny/allow the access to the application servers or segments within the network.

This layered approach of providing security significantly enhances network protection.

Ease of Management

As the network becomes a foundation of the enterprise application, network management becomes an important piece of the solution. Summit X250e switches offer comprehensive network management support through Command Line Interface (CLI), SNMP v1, v2c, v3, and an embedded XML-based web user interface, ExtremeXOS ScreenPlay™. With a variety of management options and its consistency across other Extreme Networks modular and stackable switches, Summit X250e series provides ease of management for demanding converged applications.

Extreme Networks has developed tools that save you time and resources in managing your network. EPICenter® provides fault configuration, accounting, performance and security functions, allowing effective management of multi-layer switching equipment from Extreme Networks in a converged network.

Features	Summit X250e
Copper 10/100BASE-TX	24 or 48 ports
Fiber 100BASE-X	24 ports (Summit X250e-24x)
Power over Ethernet	Yes (Summit X250e-24p and Summit X240e-48p)
Copper 10/100/1000BASE-T	2 ports
Fiber 100/1000BASE-X	2 ports
Stacking	2 ports (SummitStack)
External Redundant Power Supply	EPS-T and EPS-160 (Summit X250e-24t, Summit X250e-48t, Summit X250e-24x) EPS-500 (Summit X250e-24p) EPS-C and EPS-600LS (Summit X250e-48p) EPS-T2 and EPS-150DC (Summit X250e-24tDC, Summit X250e-48tDC, Summit X250e-24xDC)
IPv6 Routing	Hardware-based line-rate
Policy-Based Routing/Switching	Yes
ExtremeXOS Edge License	Included
ExtremeXOS Advanced Edge License	Optional

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