Summit® X150 Series

Summit® X150 Series Switches—Fast Ethernet value edge stand-alone switches with ExtremeXOS™ modular operating system.

Features

- Single streamlined operating system across the entire enterprise network

- ExtremeXOS provides scripting capability to automate network configuration

- Ethernet Automatic Protection Switching (EAPS) resiliency protocol

- Multiple network edge authentication support with multiple endpoints per port

- Ease of management

Target Applications

- Edge PoE and non-PoE switch providing basic 10/100BASE-T connectivity to the desktop in a network running ExtremeXOS from the core to the edge

Extreme Networks® Summit X150 series switches are based on ExtremeXOS, the revolutionary core-class operating system. When deployed at the network edge, Summit X150 switches benefit from the highly robust and modular architecture of ExtremeXOS and provide high levels of availability, resilience and simplified management of your entire network at an affordable price.

Summit X150 provides high availability and performance with its advanced traffic management capabilities. Summit X150 supports the rollout of a converged network with devices such as IP telephones, wireless Access Points (APs) and other devices that require power from a LAN connection, as well as regular computing devices such as desktop and laptop computers. Summit X150-24p supports the 802.3af standards-based Power over Ethernet (PoE) on every port of its PoE models.

The highly flexible Summit X150 switch provides high-density Fast Ethernet ports plus dual personality gigabit Ethernet ports in a compact 1RU format, supporting intelligent Layer 2 switching with Layer 2 – Layer 4 traffic classification and Quality of Service (QoS) on every port for high productivity. Optional redundant power supplies are provided with each switch to help secure against power anomalies.

Single Streamlined Operating System in the Entire Enterprise Network

Extreme Networks provides an ExtremeXOS-based Ethernet switching platform from edge, aggregation, to core of the enterprise network. Having one operating system significantly simplifies network deployment and operation, as well as ongoing maintenance, to reduce the total cost of ownership. Summit X150 running ExtremeXOS and provides a consistent experience amongst other switches such as the BlackDiamond® modular chassis and provides an excellent user experience from edge to core of the network.

Network Configuration Automation

ExtremeXOS provides extensible scripting capability that allows users to create a customized series of commands and executables. Scripting can be used to add incremental configuration to the network infrastructure, such as a list of VLANs to be configured. This capability eases the roll-out of networks and reduces configuration errors. For example, using the scripting capabilities of system and user-defined environment variables and constructs, such as if/then and loops, allow automating regular management tasks and deployment configurations of QoS rate limiting and ACLs to multiple ports or multiple switches.

Ethernet Automatic Protection Switching (EAPS)

EAPS allows the IP network to provide the level of resiliency and uptime that users expect from their traditional voice network. EAPS differs from Spanning Tree and Rapid Spanning Tree protocols offering sub-second (less than 50 millisec-onds) recovery that helps deliver consis-tent failover regardless of the number of VLANs, network nodes or network topology. Since EAPS allows the network to recover almost transparently, VoIP calls do not drop and digital video feeds do not freeze or pixelize in most situations.

Multiple Network Edge Authentication Support with Multiple Endpoint per Port

Network Login capability enforces user admission and usage policies. Summit X150 series switches support a comprehensive range of Network Login options by providing an 802.1x agent-based approach, a web-based (agent-less) login capability for guests, and a MAC-based authentication model for devices. With these modes of Network Login, only authorized users and devices are permitted to connect to the network and be assigned to the appropriate VLAN.

Shared ports represent a potential vulnerability in a network. Multiple supplicant capability on a switch allows it to uniquely authenticate and apply the appropriate policies and VLANs for each user or device on a shared port. Multiple supplicant support secures IP Telephony and wireless access. Converged network designs often involve the use of shared ports.

Ease of Management

As the network becomes a foundation of the enterprise application, network management becomes an important piece of the solution. Summit X150 switches offer comprehensive network manage-ment support through Command Line Interface (CLI), SNMP v1, v2c, v3, and 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 X150 series provides ease-of-management for demanding converged applications.

Extreme Networks has developed tools that can 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 X150
Copper 10/100BASE-TX	24 or 48 ports
Power over Ethernet	Yes (Summit X150-24p)
Copper 10/100/1000BASE-T	2 ports
Fiber 100/1000BASE-X	2 ports
External Redundant Power Supply	EPS-T and EPS-160 (Summit X150-24t, Summit X150-48t) EPS-500 (Summit X150-24p)
ACL Classification	Layer 2 - Layer 4, including IPv4/v6 based ACL
Policy-Based Switching	Yes in Layer 2 switching
ExtremeXOS License	ExtremeXOS Layer 2 Edge License included

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