SLX 9740
Next-Generation High Density 100G Router for WAN Edge and Border Routing

Interop Online 2020 Tokyo
EXTREME OVERVIEW

Who We Are
- Founded 1996
- Revenue: $1.1 Billion
- 2800 employees
- NASDAQ: EXTR
- HQ in San Jose, CA

What We Do
- 20+ years of networking innovation
- Cloud-Driven End-to-End Networking Solutions
- 1000+ active patents
- Award Winning Service and Support
- Leader in Gartner MQ's

Who We Serve
- ~50,000 Customers
- 7,000+ Partners
- Business in 80+ countries
- 100% Insourced Service & Support

Extreme Networks. Advance with us.
END-TO-END EFFORTLESS ARCHITECTURE

Technologies Supported by Award Winning Support and Services

Security and Access Control
Automation
Insights and Analytics
Management and Orchestration
Open Ecosystem

Built on 3rd Generation Cloud, Machine-Learning, and AI
EXTREME PORTFOLIO

Management & Automation
- ExtremeCloud IG
- ExtremeManagement Center

Insights and Analytics
- ExtremeAnalytics
- Session Director
- ExtremeLocation
- Visibility Manager

Security and Access Control
- ExtremeNAC
- ExtremeControl
- ExtremeWIPS
- ExtremeGuest
- ExtremeRF
- ExtremeCompliance

ExtremeWireless
- Wi-Fi 6

ExtremeSwitching
- ExtremeXOS
- Fabric Connect Enabled
- Extended Edge
- SLX Series
- VDX Series

ExtremeRouting
- XR Series
- SLX Series
- MLX Series
PRODUCT OVERVIEW SLX 9740

- Next Generation, **Internet Scale Routing Platform** with **Broadcom Jericho 2 chipset** for High Density Fixed Form Factor Router with **40 x 100 GbE or 80 x 100 GbE ports**

- **Border Router** with **Ultra-Deep Buffers** designed for the interconnection point between internal networks and the internet.

- **Core-Aggregation**: MPLS link data center gear to another data center and **Multi Chassis Trunking (MCT)** provides dynamic flow-based load balancing
PRODUCT HIGHLIGHTS SLX 9740

• Broadcom (Jericho 2) based **high density 100G routing** platform

• **Cost efficient** Spine, DCI, Border Leaf and Border Routing deployment options

• **Flexible** port configurations for high density 10 GbE, 25GbE, 40GbE and 100 GbE in a 1 RU form factor

• Industry-leading tunable, **deep packet buffers** (8GB, 16GB) for bursty traffic patterns

• **Versatile pipeline** with carrier-class MPLS, VXLAN, Openflow, and IP functionality

• Route Scale: 2.6M IPv4, 1.3M IPv6

Cost-effective 100G Density and Performance for Data Center Spine, WAN edge, and Internet connectivity
## ExtremeRouting SLX 9740 – High Density 100G Router

### Highlights

- **1RU and 2RU** switch options
- **Merchant silicon** based (Broadcom Jericho 2)
- High performance Multicore Intel x86 for control plane
- Ultra **high density 100G** Fixed platforms
- **Flexible** 10/25/40/50/100G options
- Deep **packet buffer**: 8GB for 1RU, 16GB for 2RU
- Optimized for advanced **analytics**
- Extremely low **power** footprint, AC & DC
- **Support for XMC 8.6, XIQ** (future release)
- Certifications – **Federal**
- Designed for **NEBS**
- **Use Cases** – **Cost efficient** IXP, Flexible Border Router with DCI, Core Aggregation, Data Center Spine

### Use Cases

- **1RU – 40x100GbE port SLX 9740-40C**
- **2RU – 80x100GbE port SLX 9740-80C**

### Architecture

- **Extreme Insight Architecture**
  - High failure domain isolation through OS VM & Process restartability
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- **Extensible Third Party applications VM**
  - Full featured advanced Internet routing, MPLS & EVPN VXLAN
  - REST-API, Streaming API for NetOps workflow automation
  - Popular Ubuntu Linux OS with open networking access to #root, Linux tools, SDKs

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Extreme GuestVM Architecture

- Guest VM in KVM environment
- Dedicated 10G data path
- Flexible in-band and out-of-band streaming options
- Dedicated storage

✔ Faster Mean Time to Innocence
✔ Move Analysis Closer to the Problem
✔ Distributed Analyzer Tools Where You Need Them
## ExtremeRouting SLX 9740 Use Cases

Designed for the most advanced networks around the world

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ExtremeRouting SLX 9740 – Core and Edge IXP

Enterprise - Campus
- Healthcare
- Government
- University
- E-Commerce
- Manufacturing
- Logistics
- Hospitality

ISP

SLX 9740

Cloud SP DC

Managed IT Colo

Content Caches
ExtremeRouting SLX 9740 – Flexible Border Routing with DCI

WAN, Internet (MPLS/IP)

Spine Switches SLX 9250
Leaf Switches SLX 9150
Border Router / DCI SLX 9740

Spine Switches SLX 9250
Leaf Switches SLX 9150
Border Router / DCI SLX 9740
ExtremeRouting SLX 9740 – Data Center Spine

- **Spine Switches**: SLX 9740
- **Leaf Switches**: N x 100G links
- **Border Leaf Switches**: 10/25G links between Leaf and Servers
- **Border Router**: SLX 9640
- **Internet**