



**Need 10G for  
your Data Center?**

**Be Extreme.**



[www.extremenetworks.com](http://www.extremenetworks.com)

**Enterprises rely on data centers to host essential business applications; universities and healthcare facilities rely on data centers to provide access to critical information and applications; and content owners rely on data centers to host and scale access to content. Extreme Networks® 10G data center switching infrastructure solutions offer high-performance and extensible products to address the tough challenges faced by Next Generation Data Centers.**

## Performance

Extreme Networks gigabit and 10 Gigabit Ethernet (GbE) top-of-rack, end-of-row and core switches provide agile network infrastructure solutions to keep ahead of the growing bandwidth demands in data center networks. The Summit® X650 switch helps optimize new server deployments while providing a seamless migration path from existing gigabit to 10 gigabit high-performance servers. The BlackDiamond® 8800 series switches' purpose-built core, aggregation, edge and data center modules meet high-density switching requirements.

- Scale 10 GbE switching solutions to 40 GbE and 100 GbE in the Summit X650 with the Versatile Interface Module or in the BlackDiamond 8800 series switches with new blades
- Handle 363 Mpps of traffic in the Summit X650 switch and 2.84 Tpps with BlackDiamond 8900-series modules in the BlackDiamond 8800 series switches
- Realize up to 582 10 GbE or 2,352 gigabit ports in a single rack
- Experience under 2µsec ultra low latency 10 GbE chassis switching for High Performance Cluster Computing
- Provide sub-50 millisecond failover for common network architectures with Ethernet Automatic Protection Switching (EAPS)
- Monitor, analyze and respond to network threats at line-rate speeds with CLEAR-Flow

## Agility

The combination of the ExtremeXOS® operating system and a host of redundancy capabilities provide a resilient, reliable platform that ensures availability in the most adverse circumstances.

- Monitor processes in real time, quickly detecting an unresponsive or crashed process and automatically restarting the process without packet loss with the ExtremeXOS operating system
- Simplify management processes with automation widgets and build an application-aware network infrastructure with the ExtremeXOS InSite XML software development kit
- Track and manage assets in a network that is undergoing rapid changes with EPICenter®

## Affordability

We work to ensure all Extreme Networks solutions are cost-effective throughout their lifespan.

- Conserve energy, without sacrificing performance, at the end of row and core with BlackDiamond 8810 tested by The Tolly Group as the most energy-efficient chassis-based switch

- Connect 10 GbE application servers with SFP+ or 10GBASE-T to accommodate existing and future cabling architectures
- Protect investment through cross-portfolio stacking for architectural flexibility and operating system consistency
- Help control operating expenses with ExtremeXOS operating system's feature continuity, simplified network administration, and reduced training requirements

## Service and Support

Our robust support resources include documentation and online resources to help you install, configure, maintain, and manage your Extreme Networks products and solutions. In addition, our Professional Services offers a wide range of services from network design to optimization and support for new applications and growth.

## Summary

Extreme Networks offers scalable, feature-rich and affordable switching infrastructure solutions to meet the toughest challenges of data center networks. For more information about Extreme Networks 10G data center solutions, check out our data center solutions at [www.extremenetworks.com/solutions/datacenter.aspx](http://www.extremenetworks.com/solutions/datacenter.aspx).

## Typical Data Center Network Architecture

