

Benefits of Migrating to Cisco® Catalyst® 6800 Switch

Why migrate to the Cisco Catalyst 6800 Series switches? Compare and see what you've been missing.

Aging switches were not designed to handle today's digital challenges. Get an up-to-date switching solution with the Cisco Catalyst 6800. These powerful campus switches are the backbone of the digital enterprise. Integrated service modules support wireless, network analysis, and pervasive security. Highly scalable, 6800 Series Switches are optimized for secure 1-10 Gb services and offer a switching capacity of up to 11.4 Tb. Improvements over previous generations include:

- Better customer and employee experiences with deeper visibility into network usage by applications to manage the network effectively
- Advanced security to handle increasing threats
- Reduced cost and complexity through support for software defined networking (SDN) and Catalyst Instant Access for easy network management

Without the right switching solutions—the applications, services, and devices you deploy cannot live up to their potential. Digital transformation makes having the right foundation to stay competitive more important than ever before. See the benefits you could be receiving now by comparing the Cisco Catalyst 6800 Series to older switches (see table below).

Trends	Features	Previous Backbone Switches: Cisco Catalyst 6500 Non-E Series Chassis (End of Sale and End of Support)			Latest Backbone Switches: Cisco Catalyst 6800 or 6500-E with Sup 2T	Benefits
		Supervisor Engine 1 (End of Support)	Supervisor Engine 2 (End of Support)	Supervisor Engine 720 (also deployed in E-series, (3A/3B – EoS)		
Scale/ Performance	System capacity	32 Gbps	256 Gbps	720 Gbps	6807-XL – Up to 11.4 Tbps Sup 2T – 2 Tbps	Campus backbone ready for 10/40/100G to handle BYOD, pervasive mobility, and Internet of Things
	Per-slot throughput		8 Gbps	40 Gbps	6807-XL – Up to 880 Gbps 6500-E - 80 Gbps	
	40G support	N/A	N/A	N/A	✓	
	100G support	N/A	N/A	N/A	✓	
BYOD/Mobility	Integrated wireless controller – WiSM2	N/A	N/A	✓	✓	Pervasive mobility deployments
	Apple Bonjour service-aware network • Bonjour service gateway	N/A	N/A	N/A	✓	Bonjour services enable Apple devices to discover and use network resources like printers
	Network segmentation • Easy virtual network (EVN)	N/A	N/A	N/A	✓	Easily segment corporate and personal device traffic for secure BYOD
	Application visibility • Multiprotocol flexible NetFlow • NBAR ¹ on NAM-3, WiSM-2	N/A	N/A	NetFlow and NBAR only	✓	Gain deeper visibility into network usage by applications to manage the network effectively for better user experience
Advanced Security	Context-aware security (Cisco TrustSec) • SGT ² in hardware	N/A	N/A	SXP ⁴ only	✓	Orchestrate role-based access to corporate resources by any user, with any device, from any location at any time

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	Regulatory compliance • MACsec	N/A	N/A	N/A	✓	Encrypt to meet regulatory requirements
	Integrated Firewall Module – ASA SM	N/A	N/A	✓	✓	Manage consistent access policy for remote users
Simplicity and SDN	Simplified operations • Cisco Catalyst Instant Access	N/A	N/A	N/A	✓	Ease of deployment and lower OpEx through single touch configuration and management
	SDN/programmability: • Cisco onePK ready • OpenFlow ready	N/A	N/A	N/A	✓	Simplicity and business agility
Other	Video/collaboration • Medianet • Advanced multicast	N/A	N/A	✓	✓	Uncompromised user experience: assess, monitor, and troubleshoot network proactively
	Super resiliency (quad-sup SSO)	N/A	N/A	Quad-sup uplink forwarding only	✓	Maintain 99.999% uptime of your backbone network

Cisco Catalyst 3850 offers higher AP support, modular uplinks and StackPower in addition to Cisco Catalyst 3650 features.

¹ NBAR – Network Based Application Recognition ² SGT – Security Group Tagging ³ SG ACL – Security Group Access Control List ⁴ SXP – SGT Exchange Protocol

Finance Your Switching Migration with Cisco Capital

Let financing from Cisco Capital make migrating your switches and accelerating your digital transformation even easier. Cisco Capital Easy Pay makes this transition as easy as possible with no upfront costs and predictable monthly payments. You pay 90% of the total over a three-year period that is completely interest free. At the end of the term, you have the following options to return and refresh the equipment, extend your lease or purchase the solution at 10% of original cost. Take advantage of this market-leading interest rate and use your budget for other investments.

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Improve your results with our Services

No matter where you are in your journey, Cisco and our partners offer services expertise to help you accelerate your digital network transformation – from migration and optimization services to award-winning support. We help you speed your migration deployments, reduce risk and complexity, and provide business continuity as you refresh your network. To simplify and support your migration, Cisco offers services to streamline the process and help you get the most out of your investment. The Migration Service helps control costs, improve operational excellence, and mitigate risk during your refresh.

Learn more about all [Services for Switches](#).