



Cisco Catalyst 6840-X Series Fixed Backbone Switches

The Power You Need in the Size You Want

If you're an enterprise, you're probably facing a surge in campus network traffic. Workforce mobility, collaborative applications, and the Internet of Things (IoT) are spurring growth that introduces some scale, security, and management challenges into the network. [The Cisco Catalyst 6840-X Series Switch](#) in a compact form factor helps you address them. You can deploy the 2-rack unit (RU) fixed backbone switch in tight spaces and accelerate your traffic distribution all across the campus.

Benefits

- Get the backbone power you need in the size you want.
- Overcome space constraints with a compact MPLS platform offering full Cisco® Catalyst® 6500 and 6800 capabilities.
- Scale and support real-time applications with no traffic loss.
- Gain better visibility with larger table support, higher buffering, and best-in-class multicast capabilities.
- Avoid traffic slowdowns with native 40G connectivity.
- Achieve high availability with virtual switching and 1+1 power redundancy.
- Simplify switch deployment and management with Cisco Instant Access.

High Performance, Full Capabilities

You get support for high-bandwidth applications with a variety of port speeds, including native 40G uplinks. And there's no compromise on features: all 3000+ Cisco software capabilities and features found in larger Cisco 6800 and 6500 switch models are supported.

The 6840-X series contains four models (see Figure 1) to meet your specific needs:

- Cisco Catalyst 6816 with 16 10G ports
- Cisco Catalyst 6824 with 24 10G ports and two native 40G ports
- Cisco Catalyst 6832 with 32 10G ports
- Cisco Catalyst 6840 with 40 10G ports and two native 40G ports

Figure 1. You Can Install a 2-RU 6840-X Switch Just about Anywhere.



- Support differentiated-service priorities across your campus network.
- Increase security with Cisco TrustSec®, which enables the network to serve as a sensor, enforcer, and threat mitigator.
- Use extensive Cisco IOS® Flexible NetFlow capabilities to gain visibility into your traffic flows through your network management system.

Virtual Switching Improves Uptime

You can be confident that your network will stay up and running by connecting two of the switches in Cisco Virtual Switching System (VSS) mode. The VSS platform supports nonstop communication with stateful interchassis failover and subsecond virtual switch recovery, eliminating the need for First Hop Redundancy Protocol (FHRP). Different models of Catalyst 6480-X switches can operate as a VSS pair.

Simplified Network Operations

Cisco Instant Access simplifies the management and troubleshooting of your large distributed switch network by creating a single management domain. So you don't have to configure VLANs and port channels one by one across your switches. And you get several backbone features extended to your access switches that would otherwise not be available. Instant Access also preserves widely deployed access features such as Power over Ethernet+ and stacking for scalability and investment protection.

Next Steps

For more information about any of the Cisco Catalyst 6800 switches and Instant Access, visit www.cisco.com/go/6800.