



Why Should I Care About Cisco Catalyst 3560-E Series Switches?

Demands on IT infrastructure are changing. Improving network efficiency and articulating the clear value network infrastructure brings to your business have never been more important. The Cisco® Catalyst® 3560-E Series access and aggregation switches (Figure 1) offer networking solutions that can expand with your business without costly upgrades or network disruptions, maximize your network investment, and decrease network costs over time.

Figure 1 Cisco Catalyst 3560-E Family (Access and Aggregation Switches)



What Problems Need to be Solved?

Increased desktop bandwidth, expanded use of real-time communication and collaboration applications, and the desire to maximize networking investments are changing the way network solutions are designed and implemented. Supporting Gigabit Ethernet to the desktop often requires 10 Gigabit Ethernet connections between the access and aggregation layers to be able to maintain a quality experience for users. These deployments can sometimes face space constraints. Voice-over-IP (VoIP) phones, security cameras, and other devices are requiring Power over Ethernet (PoE) support in networking devices. Purchasing a network solution today that grows with your business and network needs can help ensure your company's competitiveness and success for tomorrow.

Cisco Catalyst 3560-E Series Switches

Cisco Catalyst 3560-E Series Switches are an enterprise-class line of standalone access and aggregation switches that facilitate the deployment of secure converged applications while maximizing investment protection for evolving network and application requirements. Configurations for the Cisco Catalyst 3560-E access switches include 24 and 48 ports of 10/100/1000 Ethernet with dual 10 Gigabit Ethernet ports. Power over Ethernet is available on both the 24-port and 48-port models and can deliver IEEE 802.3af 15.4W class 3 PoE on all ports simultaneously. Combining 10/100/1000 and PoE configurations with 10 Gigabit Ethernet uplinks, the Cisco Catalyst 3560-E enhances worker productivity by enabling applications such as IP telephony, wireless, and video.

The Cisco Catalyst 3560-E Series aggregation solutions - the Cisco Catalyst 3560E-12D, a 12-port 10 Gigabit Ethernet aggregation switch, and the Cisco Catalyst 3560E-12SD, a 12-port SFP Gigabit Ethernet aggregation switch with 2 10 Gigabit Ethernet uplink ports, deliver secure nonstop unified network services and versatile connectivity in a one-rack unit (1-RU) form factor for space- and power-constrained environments, enabling businesses to reduce total cost of ownership while maximizing investment protection.

Cisco Catalyst 3560-E Series highlights:

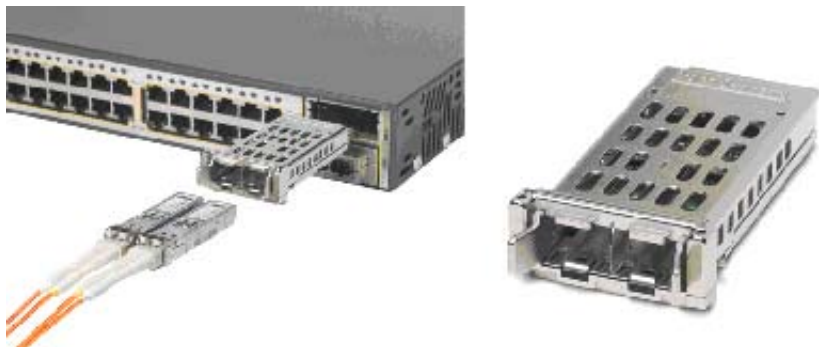
- Cisco TwinGig converter module for migrating uplinks from Gigabit Ethernet to 10 Gigabit Ethernet
- PoE configurations with 15.4W of PoE on all 48 ports
- Industry first portfolio to scale beyond 15.4W per port delivering maximum solution simplicity for 802.11n access point deployments
- Access switch models have modular power supply with externally available backup
- Dual redundant modular power supplies and fans for Cisco Catalyst 3560E-12D and Cisco Catalyst 3560E-12SD aggregation switches for nonstop operation
- Multicast routing, IPv6 routing, and access control list (ACL) in hardware
- Out-of-band Ethernet management port along with RS-232 console port



10 Gigabit Ethernet Uplinks and the Cisco TwinGig Small Form-Factor Pluggable Converter

The Cisco Catalyst 3560-E features wire-speed 10 Gigabit Ethernet uplink ports for high-bandwidth applications, relieving congestion and helping ensure smooth delivery of data. The TwinGig converter (see Figure 2) converts a 10 Gigabit Ethernet X2 interface into two Gigabit Ethernet Small Form-Factor Pluggable (SFP) ports.

Figure 2 Cisco TwinGig Adapter Converting 10 Gigabit Ethernet X2 Interface into Two Gigabit Ethernet SFP Interfaces



Power over Ethernet

The Cisco Catalyst 3560-E Series can provide a lower total cost of ownership for deployments that incorporate Cisco IP phones, Cisco Aironet® wireless LAN (WLAN) access points, or any IEEE 802.3af-compliant end device. PoE removes the need for wall power to each PoE-enabled device and eliminates the cost for additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments. With the introduction of Enhanced Power over Ethernet the 3560-E Series can scale beyond 15.4W per port delivering maximum solution simplicity for 802.11n access point deployments.

Redundant Power System

The Cisco Catalyst 3560-E Series Switches support the Cisco Redundant Power System 2300 (Cisco RPS 2300). The Cisco RPS 2300 (Figure 3) increases availability in a converged data, voice, and video network by providing transparent power backup to two of six attached Cisco Catalyst 3560-E switches at the same time. A power supply can be replaced while the switch is being powered by the Cisco RPS 2300.

Figure 3 Cisco RPS 2300



Benefits of the Cisco Catalyst 3560-E

Scale your network as your business grows: With the TwinGig converter module, you can convert the 10 Gigabit Ethernet interfaces into dual SFP ports in the access and aggregation layers, allowing you to migrate from Gigabit to 10 Gigabit Ethernet when your business demands change without changing network devices. The Cisco Catalyst 3560E-12D also enables the aggregation of up to 12 10 Gigabit Ethernet links within a compact 1-RU form factor in space-constrained environments. Decrease network costs over time: the Cisco Catalyst 3560-E delivers full PoE (15.4W) on every 10/100/1000 port so that as your needs for PoE and Gigabit Ethernet grow, you are positioned to support them without costly upgrades or complete network replacements.

Why Cisco?

Cisco is leading the way in providing intelligent networking solutions that better enable real-time applications such as IP communications and collaborative peer-to-peer applications. Whether stacking new switches to an existing switch stack or adding modules to a modular switch, Cisco Catalyst switches provide the scalability and investment protection for today's evolving customers.

For more information about Cisco Catalyst 3560-E Series Switches, visit: <http://www.cisco.com/en/US/products/ps7078/index.html>.