Cisco Catalyst 3750 Series Switching Solutions

At-A-Glance

The Cisco® Catalyst® 3750 Series is an innovative line of multilayer Fast Ethernet and Gigabit Ethernet switches featuring Cisco StackWise™ technology that allows customers to build a unified, highly resilient switching system—one switch at a time.

Figure 1 Cisco Catalyst 3750 Series Switches

Key Features

- Stackable, fixed-configuration switches with Cisco StackWise technology and a 32-Gbps interconnect for a unified, resilient system of up to nine switches
- Layer 2-4 switching and intelligent services with dynamic IP routing and IPv6
- Fast Ethernet, Gigabit Ethernet, and 10 Gigabit Ethernet connectivity
- Up to 48 10/100/1000 ports plus 4 Small Form-Factor Pluggable (SFP) ports per stackable switch
- Integrated Power over Ethernet (PoE) (Cisco pre-standard and IEEE 802.3af); up to 24 ports with 15.4 watts (W) or 48 ports with 7.3W
- AC power supply failure protection with external redundant power supply

Key Benefits

Availability—802.1S/W enables standards-based fault tolerance, load balancing, and rapid recovery; Flexlink provides sub 100-millisecond convergence; Per VLAN Spanning Tree Plus (PVST+) increases available bandwidth by allowing traffic on redundant link

Cisco StackWise Technology—One IP address and one command-line interface (CLI) simplify management; a 32-Gbps resilient architecture speeds convergence; 1:N stack master redundancy and Layer 3 uplink resilience as well as cross-stack Cisco EtherChannel® technology and QoS increase availability; autoconfiguration and Cisco IOS® Software version check and update accelerate deployment; hot add and delete of switches keep the stack running

Power over Ethernet (PoE)—370W PoE simplify IP telephony, wireless, and video surveillance deployments; intelligent power-management features provide greater control and help extend the power budget; combined with Fast Ethernet or Gigabit Ethernet maximizes existing infrastructure investment

Layer 3—Advanced routing protocols like Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Border Gateway Protocol (BGP), Static Routing, and Policy Based Routing (PBR) increase network scale; equal-cost routing as well as multicast routing such as Protocol Independent Multicast (PIM) maximize network resources; Virtual Route Forwarding Lite (VRF-Lite) secures traffic; IPv6 simplifies network addressing and mobile IP while increasing security

QoS—Traffic Shaping smoothes bursty traffic flows without dropping packets; shaped Round Robin helps guarantee bandwidth to mission-critical applications; Scavenger Queueing protects against worms that can overload resources

Management—Cisco Smartports allows fast and easy configuration of advanced Cisco Catalyst intelligent features; express setup facilitates quick and easy setup through a Web-based interface; resource templates help tailor switch resources for the application

Security—Dynamic Host Configuration Protocol (DHCP) snooping allows only trusted ports to relay DHCP messages, eliminating rogue DHCP servers; Network Access Control (NAC) prevents the propagation of costly worms and viruses; Dynamic ARP Inspection and IP Source Guard prevent against man-in-the-middle attacks; 802.1x and Identity-Based Network Services allow only authorized persons on the network; port security prevents MAC address flooding attacks

Customers

The Cisco Catalyst 3750 Series solutions are ideal for:

- Customers with 250 or more employees who need **network equipment to enhance business productivity**
- Customers who expect **resiliency, security, and scalability**
- Customers who want **to quickly deploy and easily manage their networks**
- Customers who are planning to deploy **IP telephony, wireless, or gigabit-to-the-desktop (GTTD)**

Software Options

Cisco Catalyst 3750 Series switches can be purchased with the IP Base (formerly called SMI) or IP Services (formerly called EMI) licenses, and can be upgraded in the field to Advanced IP Services licenses.

- The IP Base license offers advanced QoS, rate-limiting, ACLs, IGMP Snooping, and routing capabilities such as RIP, static routing, and EIGRP Stub
- The IP Services license provides a richer set of enterprise-class features, including advanced hardware-based IP Unicast and IP Multicast routing, PRB, and advanced IP routing protocols
- The Advanced IP Services license adds IPv6 routing and advanced IP services

Ordering Information

Cisco Catalyst 3750 Series Products (without PoE)

Part Number	Description
WS-C3750G-24T-S	24 10/100/1000BASE-T ports; IP Base Image
WS-C3750G-24T-E	24 10/100/1000BASE-T ports; IP Services Image
WS-C3750G-24TS-S1U	24 10/100/1000 ports + 4 SFP ports; IP Base Image; 1 RU
WS-C3750G-24TS-E1U	24 10/100/1000 ports + 4 SFP ports; IP Services Image; 1 RU
WS-C3750G-48TS-S	48 10/100/1000BASE-T ports + 4 SFP ports; IP Base Image and IP Services Image; 1 RU
WS-C3750G-48TS-E	48 10/100/1000T ports + 4 SFP ports; IP Services Image
WS-C3750-24TS-S	24 10/100 ports + 2 SFP ports; IP Base Image
WS-C3750-24TS-E	24 10/100 ports + 2 SFP ports; IP Services Image
WS-C3750-24FS-S	24 100BASE-FX ports + 2 SFP ports; IP Base Image
WS-C3750-48TS-S	48 10/100 ports + 4 SFP ports; IP Base Image
WS-C3750-48TS-E	48 10/100 ports + 4 SFP ports; IP Services Image
WS-C3750G-16TD-S	16 10/100/1000BASE-T ports + 1 10 GE port (requires XENPAK); IP Base Image
WS-C3750G-16TD-E	16 10/100/1000BASE-T ports + 1 10 GE port (requires XENPAK); IP Base Image
WS-C3750G-16TD-S	16 10/100/1000BASE-T ports + 1 10 GE port (requires XENPAK); IP Base Image
WS-C3750G-12S-S	12 SFP ports; IP Base Image
WS-C3750G-12S-E	12 SFP ports; IP Services Image
WS-C3750G-12S-SD	12 SFP ports; IP Base Image; DC power supply

Cisco Catalyst 3750 Series Switching Solutions

At-A-Glance

Cisco Catalyst 3750 Series Products (with PoE)

Part Number	Description
WS-C3750G-24PS-S	24 10/100/1000T PoE ports + 4 SFP ports; IP Base Image
WS-C3750G-24PS-E	24 10/100/1000T PoE ports + 4 SFP ports; IP Services Image
WS-C3750G-48PS-S	48 10/100/1000T PoE ports + 4 SFP ports; IP Base Image
WS-C3750G-48PS-E	48 10/100/1000T PoE ports + 4 SFP ports; IP Services Image
WS-C3750-24PS-S	24 10/100 PoE ports + 2 SFP ports; IP Base Image
WS-C3750-24PS-E	24 10/100 PoE ports + 2 SFP ports; IP Services Image
WS-C3750-48PS-S	48 10/100 PoE ports + 4 SFP ports; IP Base Image
WS-C3750-48PS-E	48 10/100 PoE ports + 4 SFP ports; IP Services Image

Product Availability

Shipping worldwide, no restrictions

Pricing Information

http://www.cisco.com/cgi-bin/front.x/pricing?Request=Home

Learn More about Cisco Catalyst 3750 Series Switches

http://www.cisco.com/en/US/products/hw/switches/ps5023/index.html