

# Cisco Catalyst 3560-E Series Switches

Cisco<sup>®</sup> Catalyst<sup>®</sup> 3560-E Series is (Figure 1) 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. Combining 10/100/1000 and Power over Ethernet (PoE) configurations with 10 Gigabit Ethernet uplinks, the Cisco Catalyst 3560-E Series access switches enhance worker productivity by enabling applications such as IP telephony, wireless, and video. Cisco Catalyst 3560-E Series aggregation switches deliver secure non-stop 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 Primary Features**

- 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 fan and power supply with externally available backup
- Dual redundant modular power supplies and fans for Cisco Catalyst 3560E-12D and 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

Figure 1. Cisco Catalyst 3560-E Series Access and Aggregation Switches





# **Switch Configurations**

Table 1 shows the Cisco Catalyst 3560-E Series configurations:

Table 1.Switch Configurations.

Feature	Description
Cisco Catalyst 3560E-24TD	24 Ethernet 10/100/1000 ports and 2 X2 10 Gigabit Ethernet uplinks
Cisco Catalyst 3560E-24PD	24 Ethernet 10/100/1000 ports with PoE and 2 X2 10 Gigabit Ethernet uplinks
Cisco Catalyst 3560E-48TD	48 Ethernet 10/100/1000 ports and 2 X2 10 Gigabit Ethernet uplinks
Cisco Catalyst 3560E-48PD	48 Ethernet 10/100/1000 ports with PoE and 2 X2 10 Gigabit Ethernet uplinks
Cisco Catalyst 3560E-48PD-F	48 Ethernet 10/100/1000 ports with 15.4W PoE on all 48 ports and 2 X2 10 Gigabit Ethernet uplinks
Cisco Catalyst 3560E-12D	12 X2 10 Gigabit Ethernet ports
Cisco Catalyst 3560E-12SD	12 SFP Gigabit Ethernet ports and 2 X2 10 Gigabit Ethernet ports

# Cisco Catalyst 3560-E Series Fixed Configuration Aggregation Switches

The Cisco Catalyst 3560E-12D, a 12-port 10 Gigabit Ethernet switch, and the Cisco Catalyst 3560E-12SD, a 12-port SFP Gigabit Ethernet switch with 2 10 Gigabit Ethernet uplink ports offer flexible and highly available aggregation solutions for nonstop unified network services. Dynamic routing, dual hot-swappable power supplies, and redundant field-replaceable fans enhance switch availability. Compatibility with the Cisco TwinGig module makes the Cisco Catalyst 3560-E Series aggregation switches ideal solutions for networks undergoing a gradual upgrade from Gigabit Ethernet to 10 Gigabit Ethernet. This future-proofs the network for forthcoming business growth while reducing the total cost of ownership.

The Cisco Catalyst 3560E-12D and Catalyst 3560E-12D are well suited for space- and power-constrained deployments because of the compact 1RU form factor, economical power needs and efficient cooling. Ideally suited to support secure converged applications such as Cisco TelePresence and unified communications, the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD deliver high-performance intelligent switching with the robust feature set.

Figure 2. Cisco Catalyst 3560E-12D and Cisco Catalyst 3560E-12SD Switch (Back)



#### Cisco Catalyst 3560-E Software

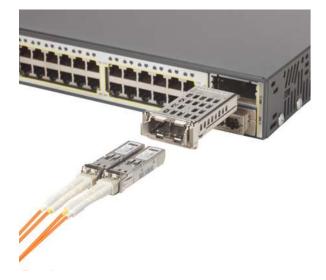
The Cisco Catalyst 3560-E Series is available with either the IP Base or the IP Services feature set. The IP Base feature set includes advanced quality of service (QoS), rate-limiting, ACLs, and basic static and Routing Information Protocol (RIP) routing capability. The IP Services feature set provides a richer set of enterprise-class features, including advanced hardware-based IP unicast and multicast routing (Enhanced Interior Gateway Routing Protocol [EIGRP], Open Shortest Path First [OSPF], Border Gateway Protocol [BGP], Protocol Independent Multicast [PIM], and so on). An additional Advanced IP Services feature set is also available which is required for IPv6 routing.

Customers can transparently upgrade the software feature set in the Cisco Catalyst 3560-E Series Switches through Cisco IOS<sup>®</sup> Software Activation. Software activation authorizes and enables the Cisco IOS Software feature sets. A special file contained in the switch, called a license file, is examined by Cisco IOS Software when the switch is powered on. Based on the license's type, Cisco IOS Software activates the appropriate feature set. License types can be changed or upgraded to activate a different feature set.

# 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 3) converts a 10 Gigabit Ethernet X2 interface into two Gigabit Ethernet Small Form-Factor Pluggable (SFP) ports. This way, customers can initially use the switch with Gigabit Ethernet uplinks and later implement 10 Gigabit Ethernet uplinks as business demands change, without having to upgrade the access layer.

**Figure 3.** Cisco TwinGig Adapter Converting 10 Gigabit Ethernet X2 Interface into Two Gigabit Ethernet SFP Interfaces





#### **Modular Power Supplies**

The Cisco Catalyst 3560-E Series access switches have one power supply slot and support the following power supplies. PoE switches require a PoE power supply. Data-only switches can operate with any of the power supplies:

- C3K-PWR-1150WAC: 1150WAC power supply with 740W PoE
- C3K-PWR-750WAC: 750WAC power supply for 24-port switch with 370W PoE
- C3K-PWR-265WAC: 265WAC power supply for 48- or 24-port switch without PoE
- C3K-PWR-265WDC: 265WDC power supply for 48- or 24-port switch without PoE

Maximum power availability for converged voice and data networks is attainable when a Cisco Catalyst 3560-E Series Switch is combined with the Cisco Redundant Power System 2300 (Cisco RPS 2300) for transparent protection against internal power supply failures and an uninterruptible power supply (UPS) system to safeguard against power outages. Using the Cisco RPS 2300 to provide backup power, the Cisco Catalyst 3560-E Series Switch power supplies become hot swappable. Table 4 shows the power supply compatibility matrix.

The Cisco Catalyst 3560E-12D and the Cisco Catalyst 3560E-12SD aggregation switches have dual redundant power supplies that can be replaced, one at a time, without service interruption. Customers can choose from AC, DC, and mixed power supply options:

- C3K-PWR-300WAC: Cisco Catalyst 3560E-12D and 3560E-12SD 300WAC power supply
- C3K-PWR-300WDC: Cisco Catalyst 3560E-12D and 3560E-12SD 300WDC power supply

#### **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<sup>®</sup> 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. The Cisco Catalyst 3560-E 24-port PoE configurations can support 24 simultaneous full-powered PoE ports at 15.4W for maximum powered-device support. The Cisco Catalyst 3560-E 48-port PoE configurations can support 48 simultaneous full-powered PoE ports at 15.4W when using the optional 1150W power supply. Alternatively, for deployments that do not need maximum power, a smaller power supply makes use of Cisco Catalyst Intelligent Power Management to support 24 ports at 15.4W, 48 ports at 7.7W, or any combination in between.

The Cisco Catalyst 3560-E Series also features Enhanced Power over Ethernet support, the capability to power a growing number of devices from a single switch port, enabling greater operational simplicity and flexibility for secure converged networks. Industry first portfolio to scale beyond 15.4W per port delivering maximum solution simplicity for 802.11n access point deployments, as well as other PoE-powered devices such as phones, monitors, digital signs, medical devices, card readers and more.

#### **Redundant Power System**

The Cisco Catalyst 3560-E Series access switches support the new generation of Cisco RPS 2300, which increases availability in a converged data, voice, and video network by providing transparent power backup to two of six attached Cisco Catalyst 3560-E Series Switches at the same time. The failed power supply can be swapped out while the switch is being powered up by the Cisco RPS 2300. The Cisco Catalyst 3560E-12D and 3560E-12SD aggregation switches don't support the RPS, they provide redundancy and switch uptime with dual redundant modular power supplies.

#### **Primary Features and Benefits**

#### Ease of Use: Deployment

The Cisco Catalyst 3560-E offers ease of use features such as Cisco Smartports, which enable fast and easy configuration of advanced Cisco Catalyst intelligent capabilities, encapsulating years of Cisco networking expertise. Cisco Smartports macros offer a set of verified feature templates per connection type that are easy to apply, enabling users to consistently and reliably configure essential security, IP telephony, availability, QoS, and manageability features with minimal effort and expertise.

Other ease of use features include:

- Dynamic Host Configuration Protocol (DHCP) autoconfiguration of multiple switches through a boot server eases switch deployment.
- Automatic QoS (AutoQoS) simplifies QoS configuration in voice-over-IP (VoIP) networks by issuing interface and global switch commands to detect Cisco IP phones, classify traffic, and help enable egress queue configuration.
- Autonegotiation on all ports automatically selects half- or full-duplex transmission mode to optimize bandwidth.
- Dynamic Trunking Protocol (DTP) facilitates dynamic trunk configuration across all switch ports.
- Port Aggregation Protocol (PAgP) automates the creation of Cisco Fast EtherChannel<sup>®</sup> groups or Gigabit EtherChannel groups to link to another switch, router, or server.
- Link Aggregation Control Protocol (LACP) allows the creation of Ethernet channeling with devices that conform to IEEE 802.3ad. This feature is similar to Cisco EtherChannel technology and PAgP.
- Automatic media-dependent interface crossover (MDIX) automatically adjusts transmit and receive pairs if an incorrect cable type (crossover or straight-through) is installed.
- Unidirectional Link Detection Protocol (UDLD) and Aggressive UDLD allow unidirectional links caused by incorrect fiber-optic wiring or port faults to be detected and disabled on fiber-optic interfaces.

#### **Availability and Scalability**

The Cisco Catalyst 3560-E Series is equipped with a robust set of features that allow for network scalability and higher availability. This is achieved through IP routing as well as a complete suite of Spanning Tree Protocol enhancements aimed to maximize availability in a Layer 2 network. Enhancements to the standard Spanning Tree Protocol, such as Per-VLAN Spanning Tree Plus

(PVST+), Uplink Fast, and Port Fast, as well as innovations such as Flexlink, maximize network uptime.

- Flexlink provides link redundancy with convergence time less than 100ms without Spanning
  Tree Protocol. A pair of interfaces configured as primary and backup links can load balance
  traffic based on VLAN. IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP) and Multiple
  Spanning Tree Protocol (MSTP) provide rapid spanning-tree convergence independent of
  spanning-tree timers and also offer the benefit of Layer 2 load balancing and distributed
  processing.
- Per-VLAN Rapid Spanning Tree (PVRST+) allows rapid spanning-tree reconvergence on a per-VLAN spanning-tree basis, without requiring the implementation of spanning-tree instances.
- Cisco Hot Standby Router Protocol (HSRP) is supported to create redundant, failsafe routing topologies.
- Switch-port Autorecovery (Errdisable) automatically attempts to reactivate a link that is disabled because of a network error.

#### **High-Performance IP Routing**

Cisco Express Forwarding hardware routing architecture delivers extremely high-performance IP routing in the Cisco Catalyst 3560-E Series Switches.

- Basic IP unicast routing protocols (Static, Routing Information Protocol Version 1 [RIPv1], and RIPv2) are supported for small-network routing applications.
- Advanced IP unicast routing protocols (OSPF, EIGRP, and BGPv4) are supported for load balancing and constructing scalable LANs. The IP Services feature set is required.
- IPv6 routing (RIPng, OSPFv3) is supported in hardware for maximum performance. Advanced IP Services feature set is required for IPv6 routing.
- Equal-cost routing facilitates Layer 3 load balancing and redundancy.
- Policy-based routing (PBR) allows superior control by facilitating flow redirection regardless of the routing protocol configured. The IP Services feature set is required.
- HSRP provides dynamic load balancing and failover for routed links, up to 32 unique HSRP links supported per unit. The group number can be reused for each VLAN configured in the switch.
- Protocol Independent Multicast (PIM) for IP multicast routing is supported, including PIM sparse mode (PIM-SM), Source Specific Multicast (SSM), PIM dense mode (PIM-DM), and PIM sparse-dense mode. The IP Services feature set is required.
- Web Control Caching Protocol (WCCPv2) enables Wide Area Acceleration Services (WAAS), resulting in improved application response time and conservation of WAN bandwidth.
- Fallback bridging forwards non-IP traffic between two or more VLANs. The IP Services feature set is required.

# **Superior Quality of Service**

The Cisco Catalyst 3560-E Series offers Gigabit Ethernet speed with intelligent services that keep everything flowing smoothly, even at 10 times the normal network speed. Industry-leading

mechanisms for marking, classification, and scheduling deliver superior performance for data, voice, and video traffic, all at wire speed.

Following are some of the QoS features supported in the Cisco Catalyst 3560-E Series Switches:

- 802.1p class of service (CoS) and differentiated services code point (DSCP) field classification is provided, using marking and reclassification on a per-packet basis by source and destination IP address, MAC address, or Layer 4 TCP/UDP port number.
- Cisco control-plane and data-plane QoS ACLs on all ports help ensure proper marking on a per-packet basis.
- Four egress queues per port help enable differentiated management of up to four traffic types across the switch.
- Shaped Round Robin (SRR) scheduling helps ensure differential prioritization of packet flows by intelligently servicing the ingress queues and egress queues.
- Weighted Tail Drop (WTD) provides congestion avoidance at the ingress and egress queues before a disruption occurs.
- Strict priority queuing helps ensure that the highest-priority packets are serviced ahead of all other traffic.
- The Cisco committed information rate (CIR) function provides bandwidth in increments as low as 8 Kbps.
- Rate limiting is provided based on source and destination IP address, source and destination MAC address, Layer 4 TCP/UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or MAC ACLs), class maps, and policy maps.
- Up to 64 aggregate or individual policers are available per Fast Ethernet or Gigabit Ethernet port.

#### **Advanced Security**

The Cisco Catalyst 3560-E Series supports a comprehensive set of security features for connectivity and access control, including ACLs, authentication, port-level security, and identity-based network services with 802.1x and extensions. This set of comprehensive features not only helps prevent external attacks, but defends the network against "man-in-the-middle" attacks, a primary concern in today's business environment. The switch also supports the Network Admission Control (NAC) security framework.

- DHCP Snooping prevents malicious users from spoofing a DHCP server and sending out invalid addresses. This feature is used by other primary security features to prevent a number of other attacks such as ARP poisoning.
- Dynamic ARP Inspection (DAI) helps ensure user integrity by preventing malicious users from exploiting the insecure nature of the ARP protocol.
- IP source guard prevents a malicious user from spoofing or taking over another user's IP address by creating a binding table between the client's IP and MAC address, port, and VLAN.
- Private VLANs restrict traffic between hosts in a common segment by segregating traffic at Layer 2, turning a broadcast segment into a nonbroadcast multi-access-like segment.
- Private VLAN Edge provides security and isolation between switch ports, which helps ensure that users cannot snoop on other users' traffic.

- Unicast RPF feature helps mitigate problems caused by the introduction of malformed or forged (spoofed) IP source addresses into a network by discarding IP packets that lack a verifiable IP source address.
- IEEE 802.1x allows dynamic, port-based security, providing user authentication.
- IEEE 802.1x with VLAN assignment allows a dynamic VLAN assignment for a specific user regardless of where the user is connected.
- IEEE 802.1x with voice VLAN permits an IP phone to access the voice VLAN irrespective of the authorized or unauthorized state of the port.
- IEEE 802.1x and port security are provided to authenticate the port and manage network access for all MAC addresses, including that of the client.
- IEEE 802.1x with an ACL assignment allows for specific identity-based security policies regardless of where the user is connected.
- IEEE 802.1x with guest VLAN allows guests without 802.1x clients to have limited network access on the guest VLAN.
- Web authentication for non-802.1x clients allows non-802.1x clients to use an SSL-based browser for authentication.
- Multi-Domain Authentication allows an IP phone and a PC to authenticate on the same switch port while placing them on appropriate voice and data VLANs.
- MAC Auth Bypass (MAB) for voice allows third-party IP phones without an 802.1x supplicant to get authenticated using their MAC address.
- Cisco security VLAN ACLs on all VLANs prevent unauthorized data flows from being bridged within VLANs.
- Cisco standard and extended IP security router ACLs define security policies on routed interfaces for control-plane and data-plane traffic. IPv6 ACLs can be applied to filter IPv6 traffic.
- Port-based ACLs for Layer 2 interfaces allow security policies to be applied on individual switch ports.
- Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3) provide network security by encrypting administrator traffic during Telnet and SNMP sessions. SSH Protocol, Kerberos, and the cryptographic version of SNMPv3 require a special cryptographic software image because of U.S. export restrictions.
- Bidirectional data support on the Switched Port Analyzer (SPAN) port allows the Cisco intrusion detection system (IDS) to take action when an intruder is detected.
- TACACS+ and RADIUS authentication facilitates centralized control of the switch and restricts unauthorized users from altering the configuration.
- MAC Address Notification allows administrators to be notified of users added to or removed from the network.
- Port Security secures the access to an access or trunk port based on MAC address.
- Multilevel security on console access prevents unauthorized users from altering the switch configuration.
- Bridge protocol data unit (BPDU) guard shuts down Spanning Tree PortFast-enabled interfaces when BPDUs are received to avoid accidental topology loops.

- Spanning Tree Root Guard (STRG) prevents edge devices not in the network administrator's control from becoming Spanning Tree Protocol root nodes.
- IGMP filtering provides multicast authentication by filtering out nonsubscribers and limits the number of concurrent multicast streams available per port.
- Dynamic VLAN assignment is supported through implementation of VLAN Membership Policy Server client capability to provide flexibility in assigning ports to VLANs. Dynamic VLAN facilitates the fast assignment of IP addresses.

#### Intelligent Power over Ethernet (PoE) Management

The Cisco Catalyst 3560-E PoE models support Cisco IP phones and Cisco Aironet wireless LAN (WLAN) access points, as well as any IEEE 802.3af-compliant end device. The Cisco Catalyst 3560-E-48PD can support 48 simultaneous full-powered PoE ports at 15.4W with the 1150W power supply.

- Cisco Discovery Protocol version 2 allows the Cisco Catalyst 3560-E Series Switch to
  negotiate a more granular power setting when connecting to a Cisco powered device, such
  as IP phones or access points, than what is provided by IEEE classification.
- Per Port power consumption command allows customer to specify maximum power setting on an individual port.
- Per Port PoE Power Sensing measures actual power being drawn, enabling more intelligent control of powered devices.
- The PoE MIB provides proactive visibility into power usage and allows customers to set different power level thresholds
- Link Layer Discovery Protocol (LLDP and LLDP-MED) adds support for IEEE 802.1AB link layer discovery protocol for interoperability in multivendor networks. Switches exchange speed, duplex, and power settings with end devices such as IP phones.

#### **Management and Control Features**

The Cisco Catalyst 3560-E Series Switches come with a rich set of management and control features that include:

- Cisco IOS Software CLI support provides common user interface and command set with all Cisco routers and Cisco Catalyst desktop switches.
- Generic On-Line Diagnostics (GOLD) checks the health of hardware components and verifies proper operation of the system data and control plane at run time and boot time.
- Virtual Route Forwarding (VRF)-Lite enables a service provider to support two or more VPNs with overlapping IP addresses.
- Switching Database Manager Templates for access, routing, and VLAN deployment allow the administrator to easily maximize memory allocation to the desired features based on deployment-specific requirements.
- With Cisco IOS Software IP SLAs, users can verify service guarantees, increase network
  reliability by validating network performance, proactively identify network issues, and
  increase return on investment (ROI) by easing the deployment of new IP services.
- Local Proxy Address Resolution Protocol (ARP) works in conjunction with Private VLAN
   Edge to minimize broadcasts and maximize available bandwidth.
- VLAN1 minimization allows VLAN1 to be disabled on any individual VLAN trunk.

- Internet Group Management Protocol (IGMP) Snooping for IPv4 and IPv6 MLD v1 and v2 Snooping provide fast client joins and leaves of multicast streams and limit bandwidthintensive video traffic to only the requestors.
- Multicast VLAN Registration (MVR) continuously sends multicast streams in a multicast VLAN while isolating the streams from subscriber VLANs for bandwidth and security reasons.
- Per-port broadcast, multicast, and unicast storm control prevents faulty end stations from degrading overall systems performance.
- Voice VLAN simplifies telephony installations by keeping voice traffic on a separate VLAN for easier administration and troubleshooting.
- Cisco VLAN Trunking Protocol (VTP) supports dynamic VLANs and dynamic trunk configuration across all switches.
- Remote Switch Port Analyzer (RSPAN) allows administrators to remotely monitor ports in a Layer 2 switch network from any other switch in the same network.
- For enhanced traffic management, monitoring, and analysis, the Embedded Remote
  Monitoring (RMON) software agent supports four RMON groups (history, statistics, alarms,
  and events).
- Layer 2 traceroute eases troubleshooting by identifying the physical path that a packet takes from source to destination.
- Trivial File Transfer Protocol (TFTP) reduces the cost of administering software upgrades by downloading from a centralized location.
- Network Timing Protocol (NTP) provides an accurate and consistent timestamp to all intranet switches.
- Multifunction LEDs per port for port status; half-duplex and full-duplex mode; and 10BASE-T, 100BASE-TX, and 1000BASE-T indication as well as switch-level status LEDs for system, redundant-power supply, and bandwidth utilization provide a comprehensive and convenient visual management system.
- Jumbo frames (9216 bytes) are available on the 10/100/1000 configurations for advanced data and video applications requiring very large frames.

#### **Network Management Tools**

The Cisco Catalyst 3560-E Series offers both a superior command-line interface (CLI) for detailed configuration and Cisco Network Assistant software, a PC-based tool for quick configuration based on preset templates. In addition, CiscoWorks LAN Management Solution (LMS) supports the Cisco Catalyst 3560-E Series for networkwide management.

#### **Cisco Network Assistant**

A PC-based network management application designed for small and medium-sized business (SMB) networks with up to 250 users, Cisco Network Assistant offers centralized network management and configuration capabilities. Cisco Network Assistant uses Cisco Smartports technology to simplify both initial deployment and ongoing maintenance. This application also features an intuitive GUI where users can easily apply common services across Cisco switches, routers, and access points, such as:

- · Configuration management
- · Troubleshooting advice

- · Inventory reports
- · Event notification
- · Network security settings
- · Password synchronization
- Drag-and-drop Cisco IOS Software upgrades
- · Secure wireless

For detailed information about Cisco Network Assistant, go to: <a href="http://www.cisco.com/go/cna">http://www.cisco.com/go/cna</a>.

# **CiscoWorks LAN Management Solution (LMS)**

CiscoWorks LMS is a suite of powerful management tools that simplify the configuration, administration, monitoring, and troubleshooting of Cisco networks. It integrates these capabilities into a world-class solution for improving the accuracy and efficiency of your operations staff, while increasing the overall availability of your network. LMS supports over 400 different device types, including the Cisco Catalyst 3560-E Series Switches, and it provides:

- Network discovery, topology views, end-station tracking, and VLAN management
- Real-time network fault analysis with easy-to-deploy device-specific best-practice templates
- Hardware and software inventory management, centralized configuration tools, and Syslog monitoring
- · Network response time and availability monitoring and tracking
- · Real-time device, link, and port traffic management, analysis, and reporting
- For detailed information about CiscoWorks LMS, go to: http://www.cisco.com/en/US/products/sw/cscowork/ps2425/index.html.

# **Product Specifications**

Table 2 lists product specifications for the Cisco Catalyst 3560-E Series.

 Table 2.
 Descriptions and Specifications

Description	Specification								
Performance	Switching Fabric 128 Gbps								
	DRAM			128 MB / 256 MB *					
	FLASH			64 MB					
	VLANs	VLANs				1K			
	VLAN IDs		4K						
	Switched Virtual I	Interfaces (SVIs)		1K	1K				
	Jumbo Frames			9216 B	9216 Byte				
	Forwarding rate	:							
	3560E-24TD			65.5 Mp	pps				
	3560E-24PD			65.5 Mp	pps				
	3560E-48TD			101.2 M	1pps				
	3560E-48PD			101.2 M	1pps				
	3560E-48PD-F			101.2 M	1pps				
	3560E-12D			90 Mpp	s				
	3560E-12SD			47.6 Mp	pps				
		MAC, routing, security, and QoS scalability used in the switch:  Default Access VLAN			numbers depend on the type of template				
	Default				Routing	Default			
	Template	Template	Templa	ite	Template	Template			
	MAC address	6K	4K / 6K	*	12K	3K / 6K *			
	IGMP groups and multicast routes	1K	1K		1K	1K			
	Total unicast routes	8K / 12K *	6K / 12H	<b>〈</b> *	0	11K / 20K *			
	Directly connected hosts	6K	4K / 6K	*	0	3K / 6K *			
	Indirect routes	2K / 6K *	2K / 6K	*	0	8K / 14K *			
	Security ACEs	1K	2K / 4K	*	1K	1K			
	QoS ACEs	0.5K / 0.8K *	0.5K / 0	.8K *	0.5K / 0.8K *	0.5K			
	PBR ACEs	0	0.5K		0	0.5K			
	* Specific to the 0	Cisco Catalyst 356	0E-12D or	nly					
Connectors and Cabling	<ul> <li>1000BASE-T ports: RJ-45 connectors, 2-pair Cat-5 UTP cabling</li> <li>1000BASE-T SFP-based ports: RJ-45 connectors, 2-pair Cat-5 UTP cabling</li> <li>100BASE-FX, 1000BASE-SX, -LX/LH, -ZX, -BX10 and CWDM SFP-based ports: LC fiber connectors (single-mode, or multimode fiber)</li> <li>10GBASE-SR, LR, ER, CX4, LX4, LRM X2-based ports: SC fiber connectors (single-mode, or multimode fiber)</li> </ul>								
		agement port: RJ				oling			
	Management	console port: RJ-	45-to-DB9	cable for	PC connections				

Power Connectors	<ul><li>supply or the Cisco RP</li><li>The Cisco Catalyst 356</li></ul>	<ul> <li>Customers can provide power to an access switch by using either the internal power supply or the Cisco RPS 2300. The connectors are located at the back of the switch.</li> <li>The Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD have dual power supplies and</li> </ul>			
	internal power supply s	connector: The inte	ges between 10	ly is an autoranging unit. The 0 and 240VAC. Use the tor to an AC power outlet.	
	that uses AC input and	supplies DC outpu	ut to the switch.	r an optional Cisco RPS 2300  be attached to the redundant-	
	power-supply receptac				
Indicators	System-status LEDs: s	<ul> <li>Per-port status LEDs: link integrity, disabled, activity, speed, and full-duplex indication</li> <li>System-status LEDs: system, RPS, and bandwidth-utilization indications (on the Cisco Catalyst 3560E-12D and 3560E-12SD only: system, power supplies, fans)</li> </ul>			
Dimensions (H x W x D)		Inches		Centimeters	
	3560E-24TD	1.75 x 17.5 x	18.1	4.45 x 44.5 x 46.0	
	3560E-24PD	1.75 x 17.5 x	18.1	4.45 x 44.5 x 46.0	
	3560E-48TD	1.75 x 17.5 x	18.1	4.45 x 44.5 x 46.0	
	3560E-48PD	1.75 x 17.5 x	18.1	4.45 x 44.5 x 46.0	
	3560E-48PD-F	1.75 x 17.5 x		4.45 x 44.5 x 55.2	
	3560E-12D	1.75 x 17.5 x		4.45 x 44.5 x 49.5	
	3560E-12SD	1.75 x 17.5 x	15	4.45 x 44.5 x 38.1	
Weight		Pounds		Kilograms	
·	3560E-24TD	17.9		8.1	
	3560E-24PD	18.3		8.3	
	3560E-48TD	18.8		8.6	
	3560E-48PD	19.2		8.75	
	3560E-48PD-F	20.9		9.5	
	3560E-12D	23.5		10.7	
	3560E-12SD	16		7.27	
Environmental Ranges	Operating temperature: 32 to 113°F (0 to 45°C) Storage temperature: -13 to 158°F (-25 to 70°C) Relative humidity operating: 0 to 95% (noncondensing) Relative humidity nonoperating: 10 to 85% (noncondensing) Operating altitude: up to 10,000 ft (3049 m) Storage altitude: up to 15,000 ft (4573 m) Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD: up to 50,000 feet over allower temperature range; NEBS - up to 13,000 feet [4000 m]			<b>.</b>	
Acoustic Noise	International Organization an ambient temperature of		(ISO) 7779: bys	stander position operating to	
	3560E-24TD		45 dB		
	3560E-48TD		45 dB		
	3560E-24PD		45 dB		
	3560E-48PD		45 dB		
	3560E-48PD-F		48 dB		
	3560E-12D		44 dB		
	3560E-12SD		44 dB		
Mean Time Between Failure	3560E-24TD		181,086 hours		
(MTBF)	3560E-24PD		168,753 hours		
	3560E-48TD		166,907 hours		
	3560E-48PD		151,196 hours		
	3560E-48PD-F		151,196 hours		
			147,001 hours		

Table 3 lists the management and standards support for the Cisco Catalyst 3560-E Series.

 Table 3.
 Management and Standards Support for Cisco Catalyst 3560-E Series Switches

Description	Specification	
Management	BRIDGE-MIB CISCO-CDP-MIB CISCO-CLUSTER-MIB CISCO-CONFIG-MAN-MIB CISCO-ENTITY-FRU-CONTROL-MIB CISCO-ENVMON-MIB CISCO-FLASH-MIB CISCO-FTP-CLIENT-MIB CISCO-HSRP-MIB CISCO-HSRP-EXT-MIB CISCO-IGMP-FILTER-MIB CISCO-IGMP-FILTER-MIB CISCO-L2L3-INTERFACE-CONFIG-MIB CISCO-POE-EXTENSIONS-MIB CISCO-MAC-NOTIFICATION-MIB CISCO-PAGP-MIB CISCO-PAGP-MIB CISCO-PAGP-MIB CISCO-POE-EXTENSIONS-MIB CISCO-PAGP-MIB CISCO-PAGP-MIB CISCO-PAGP-MIB CISCO-PAGP-MIB CISCO-POE-EXTENSIONS-MIB CISCO-PROCESS-MIB CISCO-PROCESS-MIB CISCO-STP-EXTENSIONS-MIB CISCO-SYSLOG-MIB CISCO-SYSLOG-MIB CISCO-VLAN-MEMBERSHIP-MIB CISCO-VLAN-MEMBERSHIP-MIB	CISCO-VTP-MIB  ENTITY-MIB  ETHERLIKE-MIB  IF-MIB  IGMP-MIB  IPMROUTE-MIB  OLD-CISCO-CHASSIS-MIB  OLD-CISCO-FLASH-MIB  OLD-CISCO-INTERFACES-MIB  OLD-CISCO-IP-MIB  OLD-CISCO-TCP-MIB  OLD-CISCO-TCP-MIB  OLD-CISCO-TS-MIB  OSPF-MIB (RFC 1253)  PIM-MIB  RFC1213-MIB  RFC1213-MIB  RMON-MIB  RMON2-MIB  SNMP-FRAMEWORK-MIB  SNMP-MPD-MIB  SNMP-TARGET-MIB  SNMP-V2-MIB  TCP-MIB  TCP-MIB  UDP-MIB
Standards	IEEE 802.1s  IEEE 802.1w  IEEE 802.1x  IEEE 802.3ad  IEEE 802.3af  IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports  IEEE 802.1D Spanning Tree Protocol  IEEE 802.1D CoS Prioritization  IEEE 802.1Q VLAN  IEEE 802.3 10BASE-T specification  IEEE 802.3u 100BASE-TX specification  IEEE 802.3ab 1000BASE-T specification  IEEE 802.3z 1000BASE-T specification  IEEE 802.3z 1000BASE-X specification  IEEE 802.3z 1000BASE-X specification	1000BASE-LX/LH     1000BASE-BX10-U     1000BASE-BX10-D     1000BASE-CWDM SFP 1470 nm     1000BASE-CWDM SFP 1490 nm     1000BASE-CWDM SFP 1510 nm     1000BASE-CWDM SFP 1530 nm     1000BASE-CWDM SFP 1550 nm     1000BASE-CWDM SFP 1550 nm     1000BASE-CWDM SFP 1570 nm     1000BASE-CWDM SFP 1590 nm     1000BASE-CWDM SFP 1610 nm     100BASE-SR     10GBASE-LR     10GBASE-LR     RMON I and II standards     SNMPv1, SNMPv2c, and SNMPv3

Table 4 lists the power supply compatibility matrix for all different models of Cisco Catalyst 3560-E Series Switches.

 Table 4.
 Power Supply Compatibility Matrix

Cisco Catalyst 3560-E Series Switch Type	Power Suppl	Power Supply						
	C3K-PWR- 1150WAC	C3K-PWR- 750WAC	C3K-PWR- 265WAC	C3K-PWR- 265WDC	C3K-PWR- 300WAC	C3K-PWR- 300WDC		
48-Port PoE Switch	Х	Х	-	-	-	-		
24-Port PoE Switch	Х	Х	-	-	-	-		
48-Port Switch	Х	Х	Х	Х	-	-		
24-Port Switch	Х	Х	Х	Х	-	-		
Cisco RPS 2300	Х	Х	-	-	-	_		
Cisco Catalyst 3560E-12D	_	-	_	-	х	Х		
Cisco Catalyst 3560E-12SD	-	-	-	-	Х	Х		

Table 5 lists the power specifications for the Cisco Catalyst 3560-E Series based on the kind of power supply used.

Table 5. Power Specifications

Description	Specifications					
	C3K-PWR- 1150WAC	C3K-PWR- 750WAC	C3K-PWR- 265WAC	C3K-PWR- 265WDC	C3K-PWR- 300WAC	C3K-PWR- 300WDC
Max Output Power	1150W	750W	265W	265W	300W	300W
Input-Voltage Range and Frequency	115–240VAC, 50–60 Hz	100–240VAC, 50–60 Hz	100–240VAC, 50–60 Hz	-36VDC to - 72VDC	85–265VAC, 47–63 Hz	-40.5VDC to - 72VDC
Input Current	12-6A	10-5A	5-2.5A	<5A@-72VDC <10A@- 36VDC	4-2A	8A
Output Ratings	12V@25A -52V@16.4A	12V@25A -52V@8.75A	12V@22A	12V@22A	12V@25A	12V@25A
Output Holdup Time	20 ms minimum	20 ms minimum	20 ms minimum	> 2ms@- 48VDC	20 ms minimum	8ms
Power-Supply Input Receptacles	IEC 320-C14 (IEC60320- C14)	IEC 320-C14 (IEC60320- C14)	IEC 320-C13 (IEC60320- C14)	_	IEC 320-C13 (IEC60320- C14)	-
Power Cord Rating	15A	15A	15A	12A@- 100VDC	10A	12AWG

Table 6 lists the specifications of all the power supplies supported in Cisco Catalyst 3560-E Series Switches.

 Table 6.
 Power Supply Specifications

Product Specifications	Power Supply					
	C3K-PWR- 1150WAC	C3K-PWR- 750WAC	C3K-PWR- 265WAC	C3K-PWR- 265WDC	C3K-PWR- 300WAC	C3K-PWR- 300WDC
Physical Specifications	(H x W x D): 1.65 X 6.0 X 14.90 in Weight: 5.6 lb (2.6 kg)	1.65 X 6.0 X       1.4 in       1.4 in       1.4 in       1.4 in       1.4 in       1.4 in       Weight: 3.5 lb         Weight: 5.6 lb       Weight: 3.9 lb       Weight: 3.3 lb       Weight: 3.5 lb				) in
Total Output BTU (Note: 1000 BTU/hr = 290W)	3939 BTU/hr, 1150W	2568 BTU/hr, 765W	907 BTU/hr, 265W	907 BTU/hr, 265W	1034 BTU/hr, 3	00W
Operating Temperature	23 to 113年 (-5	to 45℃)			23 to 131℉ (-5	to 55℃)
Storage Temperature	-40 to 158℉ (-4	0 to 70℃)			-40 to 185℉ (-4	0 to 85℃)
Relative Humidity Operating,	10 to 85% none	condensing			10 to 90% none	condensing
Relative Humidity Nonoperating,	0 to 95% nonco	ondensing			5 to 95% nonco	ondensing
Altitude	10,000 ft. (3000	) meters), up to	45℃		temperature ra	n) over allowable nge -1,000 to 50,000 (40 m) over
MTBF	500,000 hrs (with 90% confidence level).  hrs with fan (MIL HDBK 217F formula Demonstrate MTBF 150,0 hrs with 90%				MTBF 220,000 hrs with fan	hrs with fan (Bellcore formula). Demonstrated
EMI and EMC Compliance	<ul> <li>FCC Part 15 (CFR 47) Class A</li> <li>ICES-003 Class A</li> <li>EN 55022 Class A</li> <li>CISPR 22 Class A</li> <li>AS/NZS 3548 Class A</li> <li>VCCI Class A</li> <li>EN 55024</li> <li>EN 300 386</li> <li>EN 50082-1</li> <li>EN 61000-3-2</li> <li>EN 61000-3-3</li> <li>EN 61000-6-1</li> <li>NEBS Compliant (Except C3K-PWR-1150WAC and C3K-PWR-750WAC)</li> </ul>				DWAC)	
Safety Compliance	<ul> <li>UL 60950-1 1st Edition</li> <li>CAN/CSA-C22.2 No. 60950-1 1st Edition</li> <li>EN 60950-1 1st Edition</li> <li>IEC 60950-1 1st Edition</li> </ul>					
LED Indicators	<ul> <li>"AC OK" or "DC IN": Input power to the power supply is OK.</li> <li>"PS OK": Output power from the power supply is OK.</li> <li>"PS OK": Output power from the power supply is OK.</li> </ul>				ly is OK. utput power from	

Table 7 lists the safety and compliance information for the Cisco Catalyst 3560-E Series.

Table 7. Safety and Compliance

Description	Specification
Safety Certifications	<ul> <li>UL60950-1</li> <li>C-UL to CAN/CSA 22.2 No.60950-1</li> <li>TUV/GS to EN 60950-1</li> <li>CB to IEC 60950-1 with all country deviations</li> <li>CE Marking</li> <li>CCC for PS FRU</li> </ul>
Electromagnetic Emissions Certifications	FCC Part 15 Class A  EN 55022 Class A (CISPR22 Class A)  CNS13438 Class A (applicable only to FRU power supplies)  AS/NZS CISPR22 Class A  EN55024  GR-1089 CORE Class A  EN 300 368  MIC  CE Marking  China (applicable only to FRU power supplies)
NEBS	GR-63-CORE, GR-1089-CORE     Level 3 Type 2, 4 and Wall Mount     AT&T TP76200 Checklist     TCG NEBS Checklist
ETSI	EN 300 019 - Storage: Class 1.2, Transportation: Class 2.3, In-Use: Class 3.2
Environmental	Reduction of Hazardous Substances (ROHS) 5
Noise Specifications	Office Product Spec: 48dBA at 30°C (refer to ISO 7779)
Telco	CLEI code
Warranty	Standard 90 Day Limited Hardware and Software Warranty

# **Hardware Warranty**

Cisco Catalyst 3560-E Series Switches come with the standard Cisco 90-day limited warranty for hardware and software, as described at:

http://www.cisco.com/en/US/products/prod\_warranties\_item09186a00805f005b.html.

# **Service and Support**

Cisco and its partners can help you deploy a robust, dependable Cisco desktop switching solution by taking a lifecycle approach that addresses all aspects of deploying, operating, and optimizing a complex solution, including people, processes, and technology.

Whether you are migrating your existing Cisco desktop switching solution or deploying a new solution, this approach helps align business and technical goals throughout the solution lifecycle. Upgrading from one Cisco IOS Software feature set (IP Base or IP Services) to another (IP Services or Advanced IP Services) involves the software activation process described in this document. Customers must purchase a feature set-specific Cisco SMARTnet<sup>®</sup> Service contract to help ensure service coverage for newly activated Cisco IOS Software feature sets.

Cisco and its partners are specialists in Cisco desktop switching products and technologies, business analysis, and project management. Cisco services are available through various service programs designed to help accelerate customer success throughout the network lifecycle. For more information about Cisco Services, see <u>Cisco Technical Support Services</u> or <u>Cisco Advanced Services</u>.

# **Ordering Information**

Table 8 lists ordering information for the Cisco Catalyst 3560-E Series. To place an order, visit the Cisco ordering homepage at:

http://www.cisco.com/en/US/ordering/or13/or8/order customer help how to order listing.html.

Table 8. Cisco Catalyst 3560-E Series Ordering Info

Cisco Catalyst 3560-E Series				
Product Number	Product Description			
WS-C3560E-24TD-S	<ul> <li>24 10/100/1000 ports + 2 X2-based 10 Gigabit Ethernet ports</li> <li>68-Gbps, wire rate backplane</li> <li>Field-replaceable 265WAC power supply and fan tray</li> <li>1 rack unit (RU) fixed configuration multilayer switch</li> <li>IPv6</li> <li>IP Base software feature set (IPB)</li> </ul>			
WS-C3560E-24TD-E	<ul> <li>24 10/100/1000 ports + 2 X2-based 10 Gigabit Ethernet ports</li> <li>68-Gbps, wire rate backplane</li> <li>Field-replaceable 265WAC power supply and fan tray</li> <li>1-RU fixed configuration multilayer switch</li> <li>IPv6</li> <li>IP Services software feature set (IPS)</li> <li>Provides full IPv4 dynamic routing</li> </ul>			
WS-C3560E-48TD-S	<ul> <li>48 10/100/1000 ports + 2 X2-based 10 Gigabit Ethernet ports</li> <li>68-Gbps, wire rate backplane</li> <li>Field-replaceable 265WAC power supply and fan tray</li> <li>1-RU fixed configuration multilayer switch</li> <li>IPv6</li> <li>IP Base software feature set (IPB)</li> </ul>			
WS-C3560E-48TD-E	48 10/100/1000 ports + 2 X2-based 10 Gigabit Ethernet ports     68-Gbps, wire rate backplane     Field-replaceable 265WAC power supply and fan tray     1-RU fixed configuration multilayer switch     IPv6     IP Services software feature set (IPS)     Provides full IPv4 dynamic routing			
WS-C3560E-24PD-S	<ul> <li>24 10/100/1000 PoE ports + 2 X2-based 10 Gigabit Ethernet ports</li> <li>68-Gbps, wire rate backplane</li> <li>Field-replaceable 750WAC power supply and fan tray</li> <li>370W available for PoE, allowing full 15.4W to all ports</li> <li>1-RU fixed configuration multilayer switch</li> <li>IPv6</li> <li>IP Base software feature set (IPB)</li> </ul>			
WS-C3560E-24PD-E	<ul> <li>24 10/100/1000 PoE ports + 2 X2-based 10 Gigabit Ethernet ports</li> <li>68-Gbps, wire rate backplane</li> <li>Field-replaceable 750WAC power supply and fan tray</li> <li>370W available for PoE, allowing full 15.4W to all ports</li> <li>1-RU fixed configuration multilayer switch</li> <li>IPv6</li> <li>IP Services software feature set (IPS)</li> <li>Provides full IPv4 dynamic routing</li> </ul>			

WS-C3560E-48PD-S	48 10/100/1000 PoE ports + 2 X2-based 10 Gigabit Ethernet ports
	68-Gbps, wire rate backplane      The state of the s
	Field-replaceable 750WAC power supply and fan tray      770W supply for DeF allowing full 45 AW for up to 24 parts.
	<ul> <li>370W available for PoE allowing full 15.4W for up to 24 ports</li> <li>1-RU fixed configuration multilayer switch</li> </ul>
	• IPv6
	IP Base software feature set (IPB)
WS-C3560E-48PD-E	48 10/100/1000 PoE ports + 2 X2-based 10 Gigabit Ethernet ports
	68-Gbps, wire rate backplane
	Field-replaceable 750WAC power supply and fan tray  270W supply for DeF allowing full 45 AW for up to 24 parts.
	<ul> <li>370W available for PoE allowing full 15.4W for up to 24 ports</li> <li>1-RU fixed configuration multilayer switch</li> </ul>
	• IPv6
	IP Services software feature set (IPS)
	Provides full IPv4 dynamic routing
WS-C3560E-48PD-SF	• 48 10/100/1000 PoE ports + 2 X2-based 10 Gigabit Ethernet ports
	68-Gbps, wire rate backplane
	Field-replaceable 1150WAC power supply and fan tray  7.00W profile for PoF allowing full 45 4WAs all 40 and 5.
	<ul> <li>740W available for PoE, allowing full 15.4W to all 48 ports</li> <li>1-RU fixed configuration multilayer switch</li> </ul>
	IPv6
	IP Base software feature set (IPB)
WS-C3560E-48PD-EF	• 48 10/100/1000 PoE ports + 2 X2-based 10 Gigabit Ethernet ports
	68-Gbps, wire rate backplane
	Field-replaceable 1150WAC power supply and fan tray
	740W available for PoE, allowing full 15.4W to all 48 ports      1 PU fixed configuration multilouer quitable.
	1-RU fixed configuration multilayer switch     IPv6
	IP Services software feature set (IPS)
	Provides full IPv4 dynamic routing
WS-C3560E-12D-S	12 X2-based 10 Gigabit Ethernet ports
	60 Gbps, backplane utilization 2:1 oversubscribed
	Dual hot-swappable 300WAC or DC power supplies and redundant fans     A DU 6
	1-RU fixed configuration multilayer switch     IPv6
	IP Base software feature set (IPB)
WS-C3560E-12D-E	12 X2-based 10 Gigabit Ethernet ports
	60 Gbps, backplane utilization 2:1 oversubscribed
	Dual hot-swappable 300WAC or DC power supplies and redundant fans
	1-RU fixed configuration multilayer switch
	IPv6     IP Services software feature set (IPS)
	Provides full IPv4 dynamic routing
WS-C3560E-12SD-S	12 SFP based Gigabit Ethernet ports + 2 X2-based 10 Gigabit Ethernet ports
	68 Gbps, wire rate backplane
	Dual hot-swappable 300WAC or DC power supplies and redundant field-replaceable
	<ul><li>fans</li><li>1-RU fixed configuration multilayer switch</li></ul>
	IPv6
	IP Base software feature set (IPB)
WS-C3560E-12SD-E	12 SFP based Gigabit Ethernet ports + 2 X2-based 10 Gigabit Ethernet ports
	68 Gbps, wire rate backplane
	<ul> <li>Dual hot-swappable 300WAC or DC power supplies and redundant field-replaceable fans</li> </ul>
	1-RU fixed configuration multilayer switch
	• IPv6
	IP Services software feature set (IPS)
	Provides full IPv4 dynamic routing

# 3560E-LIC=

3560E-AISK9LCBQTY Advanced IP Services for 3560-E, upgrade from IP Base 3580E-AISK9LCSQTY Advanced IP Services for 3560-E, upgrade from IP Base 3560E-AISK9LCSQTY Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12D-AK9LS-QTY Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12D-AK9LS-QTY Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12SD-AK9LS-QTY Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12SD-AK9LS-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-AK9LS-QTY PS Services for 3560E-12SD, upgrade from IP Base 3560E12SD-AK9LS-QTY PS Services for 3560E-12SD, upgrade from IP Base 3560E12SD-SLB-QTY PS Services for 3560E-12SD, upgrade from IP Base 2560E12SD-SLB-QTY PS Services for 3560E-12SD, upgrade from IP Base 2560E12SD-SLB-QTY PS Services for 3560E-12SD, upgrade from IP Base 2560E12SD-SLB-QTY PS Services for 3560E-12SD, upgrade from IP Base 2560E12SD-SLB-QTY PS Services for 3560E-12SD, upgrade from IP Base 2560E12SD-SLB-QTY PS Services for 3560E-12SD, upgrade from IP Base 2560E12SD-SLB-QTY PS Services for 3560E-12SD and Services 2560E-12SD-QTS Services for 3560E-12SD Services 2560E-12SD-QTS Services for 3560E-12SD Services for 3560E-	3560E-LIC=	
3560E-AISK9LCBQTY Advanced IP Services for 3560-E, upgrade from IP Base 3560E-AISK9LCSQTY Advanced IP Services for 3560-E, upgrade from IP Base 3560E-AISK9LCSQTY Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12D-AK9LS-QTY Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12D-AK9LS-QTY Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12SD-AK9LS-QTY Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12SD-AK9LS-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-AK9LS-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-SLB-QTY IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-SLB-QTY Power Supplies and Fan Module for the Clisco Catalyst 3560E-868 36C-12SD-SLB-QTY Power Supplies and Fan Module for the Clisco Catalyst 3560E-869WAC power supply 36C-3K-PWR-750WAC= 36K-PWR-750WAC= 36K-PWR-750WAC= 36K-PWR-750WAC= 36K-PWR-750WAC= 36K-PWR-750WAC= 36K-PWR-750WAC= 36K-PWR-150WAC= 36K-PWR-150WAC= 36K-PWR-300WAC= 36K-PWR-3	Cisco Catalyst 3560-E Series Pr	oduct Activation Keys Configurations
Advanced IP Services for 3560-E, upgrade from IP Services 3560E12D-AK9L8-QTY Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12D-AK9L8-QTY Advanced IP Services for 3560E-12D, upgrade from IP Services 3560E12D-SLB-QTY IP Services for 3560E-12D, upgrade from IP Services 3560E12SD-AK9L8-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-AK9L8-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-AK9L8-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-SLB-QTY IP Services for 3560E-12SD, upgrade from IP Base Power Supplies and Fan Module for the Cisco Catalyst 3560E-12SD, upgrade from IP Base C3K-PWR-26SWAC= Catalyst 3750-E/3560E-12SD, upgrade from IP Base C3K-PWR-26SWAC= Catalyst 3750-E/3560E-12SD, upgrade from IP Base C3K-PWR-26SWAC= Catalyst 3750-E/3560E-12SD, upgrade from IP Base C3K-PWR-36SWAC= Catalyst 3750-E/3560E-12SD, upgrade from IP Base C3K-PWR-300WAC= Catalyst 3750-E/3560E-12SD, upgrade from IP Base C3K-PWR-300WAC= Catalyst 3750-E/3560E-12SD, upgrade from IP Base C3K-PWR-300WAC= Catalyst 3560E-12D and Catalyst 3560E-12SD Aggregation Switches C3K-PWR-300WAC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WAC power supply spare C3K-PWR-300WAC=	3560E-IPSLCB-QTY	IP Services for 3560-E, upgrade from the IP Base Feature Set
Advanced IP Services for 3560E-12D, upgrade from IP Base 3560E12D-AK9LS-GTY Advanced IP Services for 3560E-12D, upgrade from IP Services 3560E12D-AK9LS-GTY IP Services for 3560E-12D, upgrade from IP Services 3560E12D-AK9LS-GTY Advanced IP Services for 3560E-12D, upgrade from IP Services 3560E12SD-AK9LS-GTY Advanced IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-AK9LS-GTY Advanced IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-AK9LS-GTY IP Services for 3560E-12SD, upgrade from IP Base  G3K-PWR-26SWAC= C3K-PWR-26SWAC= C3K-PWR-26SWAC= C3K-PWR-26SWOC= C3K-PWR-26SWOC= C3K-PWR-26SWOC= C3K-PWR-26SWOC= C3K-PWR-350WC= C3	3560E-AISK9LCBQTY	Advanced IP Services for 3560-E, upgrade from IP Base
Advanced IP Services for 3560E-12D, upgrade from IP Services 3560E12D-SLB-QTY IP Services for 3560E-12D, upgrade from IP Base 3560E12SD-AK9LB-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-AK9LB-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Pservices 3560E12SD-AK9LB-QTY IP Services for 3560E-12SD, upgrade from IP Pservices 3560E12SD-SLB-QTY IP Services for 3560E-12SD, upgrade from IP Pservices 3560E12SD-SLB-QTY IP Services for 3560E-12SD, upgrade from IP Base C3K-PWR-26SWACa Catalyst 3750-E73560-E 26SWAC power supply C3K-PWR-26SWACa Catalyst 3750-E73560-E 26SWAC power supply C3K-PWR-750WACa Catalyst 3750-E73560-E 26SWAC power supply C3K-PWR-750WACa Catalyst 3750-E73560-E 26SWAC power supply C3K-PWR-1150WACa Catalyst 3750-E73560-E78PS 2300 750WAC power supply C3K-BLWR-80CFMa Fan Module for the Catalyst 3750-E73560-E Power Supplies and Fan Module for the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD Aggregation Switches C3K-PWR-300WACa Catalyst 3560E-12D and Catalyst 3560E-12SD Dower supply spare C3K-PWR-300WACa Catalyst 3560E-12D and Catalyst 3560E-12SD Dower supply spare C3K-FAN-16CFMa Fan Module for the Catalyst 3560E-12D and Catalyst 3560E-12SD Redundant Power System for the Cisco Catalyst 3560E-8 Series PWR-RPS2300 Cisco Redundant Power System 2300 and Blower, No Power Supply ACC-RPS2300-Spare Accessory kit for Cisco Redundant Power System 2300 BLNR-RPS2300-Spare RS2300 Cable for Devices other than E-Series Switches CAB-RPS2300-Spare RS2300 Cable for Devices other than E-Series Switches PWR-RPS2300-Spare RS2300 Cable for Devices other than E-Series Switches CAB-RPS2300-Spare RS2300 Cable for Catalyst 3750E73560E Switches PWR-RPS2300-Spare RS2300 Cable for Catalyst 3750E73560E Switches PWR-RPS2300-Spare RS2300 Cable for Devices other than E-Series Switches CAB-RPS2300-Spare RS2300 Cable for Devices other than E-Series Switches CAB-RPS2300-Spare RS2300 Cable for Catalyst 3750E73560E Switches PWR-750WAC-Catalyst 3750E73560E78PS 2300 750WAC power supply spare TwinGig Conver	3560E-AISK9LCSQTY	Advanced IP Services for 3560-E, upgrade from IP Services
3560E12D-SLB-GTY IP Services for 3560E-12D, upgrade from IP Base 3560E12SD-AK9LB-GTY Advanced IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-AK9LS-GTY Advanced IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-SLB-GTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-SLB-GTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-SLB-GTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-SLB-GTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-SLB-GTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-SLB-GTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-SLB-GTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-SLB-GTY IP Services for 3560E-12SD pagrade from IP Services 3560E-12SW-C3K-PWR-30WAC= Catalyst 3750-E/3560E-12S0F-C2560E-12SD (2004 PVR-30WAC= Catalyst 3750-E/3560E-12SD 300 150WAC power supply 3750E-12SB-DWR-SUPPLY-SPACE IP Services for the Catalyst 3560E-12SD and Catalyst 3560E-1	3560E12D-AK9LB-QTY	Advanced IP Services for 3560E-12D, upgrade from IP Base
3560E12SD-AK9LB-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Base 3560E12SD-AK9LS-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-AK9LS-QTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-AK9LS-QTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-AK9LS-QTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-AK9LS-QTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-AK9LS-QTY IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-AK9LS-QTY SERVICES GOOD (SERVICE) 3560E-12SD-QTY SERVICES GOOD (SERV	3560E12D-AK9LS-QTY	Advanced IP Services for 3560E-12D, upgrade from IP Services
3560E12SD-AK9LS-QTY Advanced IP Services for 3560E-12SD, upgrade from IP Services 3560E12SD-SLB-QTY IP Services for 3560E-12SD, upgrade from IP Base Power Supplies and Fan Module for the Cisco Catalyst 3560-E Series C3K-PWR-265WAC= C3K-9WR-265WAC= C3K-9WR-265WAC= C3K-9WR-265WAC= C3K-PWR-150WAC= C3K-PWR-150WAC= C3K-PWR-150WAC= C3K-PWR-150WAC= C3K-PWR-150WAC= C3K-PWR-150WAC= C3K-BLWR-60CFM= Fan Module for the Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply C3K-BLWR-60CFM= Fan Module for the Catalyst 3750-E/3560-E Power Supplies and Fan Module for the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD Aggregation Switches C3K-PWR-300WAC= C3K-PWR-	3560E12D-SLB-QTY	IP Services for 3560E-12D, upgrade from IP Base
SeoE12SD-SLB-QTY	3560E12SD-AK9LB-QTY	Advanced IP Services for 3560E-12SD, upgrade from IP Base
Power Supplies and Fan Module for the Cisco Catalyst 3560-E Series  C3K-PWR-265WDC= Catalyst 3750-E/3560-E 265WAC power supply  C3K-PWR-750WAC= Catalyst 3750-E/3560-E 265WAC power supply  C3K-PWR-750WAC= Catalyst 3750-E/3560-E 265WAC power supply  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply  C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply  C3K-BLWR-60CFM= Fan Module for the Catalyst 3750-E/3560-E  Power Supplies and Fan Module for the Cisco Catalyst 3560-E12D and Catalyst 3560-E12SD Aggregation Switches  C3K-PWR-300WAC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WAC power supply spare  C3K-PWR-300WDC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare  C3K-FAN-16CFM= Fan Module for the Catalyst 3560E-12D and Catalyst 3560E-12SD  Redundant Power System for the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD  Redundant Power System for the Cisco Catalyst 3560E-Series  PWR-RPS2300= Spare Accessory Kit for Cisco Redundant Power System 2300  BLNK-RPS2300= Spare Accessory Kit for Cisco Redundant Power System 2300  BLNK-RPS2300= Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300-E Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300-E Spare RPS2300 Chasis w/ Blower, PS blank, No Power Supply  BLWR-RPS2300= Spare ASCFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  TwinGig Converter Module  CWR-X2-SFP TwinGig Converter Module  CWR-X2-SFP TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-BK-MB= GE SFP, LC connector LX/LH transceiver  GLC-BK-D= 100BASE-FX SFP in GE SFP port on 3750,3560.2970,2960  GLC-BK-D= 100BASE-FX SFP in Ge SFP port on 3750,3560.2970,2960  GLC-BK-D= 100BASE-FX SFP in Ge SFP port on 3750,3560.2970,2960  GLC-BK-D= 100BASE-FX SFP in Ge SFP port on 3750,3560.2970,2960  GLC-BK-D= 100BASE-FX SFP in Ge SFP port on 3750,3560.2970,2960	3560E12SD-AK9LS-QTY	Advanced IP Services for 3560E-12SD, upgrade from IP Services
C3K-PWR-265WAC=	3560E12SD-SLB-QTY	IP Services for 3560E-12SD, upgrade from IP Base
C3K-PWR-265WDC=         Catalyst 3750-E/3560-E 265WDC power supply           C3K-PWR-750WAC=         Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply           C3K-PWR-1150WAC=         Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply           C3K-PWR-1150WAC=         Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply           C3K-BLWR-60CFM=         Fan Module for the Catalyst 3750-E/3560-E           Power Supplies and Fan Module for the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD 300WAC power supply spare           C3K-PWR-300WAC=         Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare           C3K-PWR-300WAC=         Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare           C3K-PWR-300WAC=         Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare           C3K-PWR-16CFM=         Fan Module for the Catalyst 3560E-12SD 300WDC power supply spare           Redundant Power System 500         Cisco Redundant Power System 2300 and Blower, No Power Supply           ACC-RPS2300         Spare Accessory Kit for Cisco Redundant Power System 2300           BLNK-RPS2300=         Spare RPS2300 Cable for Devices other than E-Series Switches           CAB-RPS2300=         Spare RPS2300 Cable for Devices other than E-Series Switches           PWR-RPS2300=         Spare RPS2300 Cable for Catalyst 3750E/3560E Switches           PWR-RPS2300=         Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply	Power Supplies and Fan Module	e for the Cisco Catalyst 3560-E Series
C3K-PWR-750WAC= C3K-PWR-1150WAC= C3K-PWR-1150WAC= C3K-PWR-1150WAC= C3K-PWR-1150WAC= C3K-PWR-1150WAC= C3K-BLWR-60CFM= Fan Module for the Catalyst 3750-E/3560-E Power Supplies and Fan Module for the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD Aggregation Switches C3K-PWR-300WAC= C3K-PWR-300WAC= C3K-PWR-300WDC= C3K	C3K-PWR-265WAC=	Catalyst 3750-E/3560-E 265WAC power supply
C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply  C3K-BLWR-60CFM= Fan Module for the Catalyst 3750-E/3560-E  Power Supplies and Fan Module for the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD Aggregation Switches  C3K-PWR-300WAC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WAC power supply spare  C3K-PWR-300WDC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare  C3K-PWR-300WDC= Fan Module for the Catalyst 3560E-12D and Catalyst 3560E-12SD  Redundant Power System for the Cisco Catalyst 3560-E Series  PWR-RPS2300 Cisco Redundant Power System 2300 and Blower, No Power Supply  ACC-RPS2300= Spare Accessory Kit for Cisco Redundant Power System 2300  BLNK-RPS2300= Spare Bay Insert for Cisco Redundant Power System 2300  CAB-RPS2300= Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300- Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300- Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300- Spare RPS 2300 Cabasis w/ Blower, PS blank, No Power Supply  BLWR-RPS2300- Spare 45CFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  CVR-X2-SFP= TwinGig Converter Module  GE SFP, LC connector LX/LH transceiver  GLC-SK-MM= GE SFP, LC connector LX/LH transceiver  GLC-SK-MM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MB= 1000BASE-TS SFP 1490NM  GLC-BX-D= 1000BASE-TS SFP, 1490NM  GLC-BX-D= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	C3K-PWR-265WDC=	Catalyst 3750-E/3560-E 265WDC power supply
C3K-BLWR-60CFM= Fan Module for the Catalyst 3750-E/3560-E  Power Supplies and Fan Module for the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD Aggregation Switches  C3K-PWR-300WAC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WAC power supply spare  C3K-PWR-300WDC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare  C3K-FAN-16CFM= Fan Module for the Catalyst 3560E-12D and Catalyst 3560E-12SD  Redundant Power System for the Cisco Catalyst 3560E-8 Series  PWR-RPS2300 Cisco Redundant Power System 2300 and Blower,No Power Supply  ACC-RPS2300= Spare Accessory Kit for Cisco Redundant Power System 2300  BLNK-RPS2300= Spare Bay Insert for Cisco Redundant Power System 2300  CAB-RPS2300= Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300-E= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  CAB-RPS2300= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300= Spare ASCFM Blower for Cisco Redundant Power System 2300  C3K-PWR-RPS2300= Spare 45CFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module  CVR-X2-SFP TwinGig Converter Module  SPS for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-SX-SM= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	C3K-PWR-750WAC=	Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply
Power Supplies and Fan Module for the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD Aggregation Switches  C3K-PWR-300WAC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WAC power supply spare  C3K-PWR-300WDC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare  C3K-FAN-16CFM= Fan Module for the Catalyst 3560E-12D and Catalyst 3560E-12SD  Redundant Power System for the Cisco Catalyst 3560-E Series  PWR-RPS2300 Cisco Redundant Power System 2300 and Blower,No Power Supply  ACC-RPS2300= Spare Accessory Kit for Cisco Redundant Power System 2300  BLNK-RPS2300= Spare Bay Insert for Cisco Redundant Power System 2300  CAB-RPS2300= Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  CAB-RPS2300= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300= Spare RPS2300 Chassis w/ Blower, PS blank, No Power Supply  BLWR-RPS2300= Spare 45CFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP= TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-SX-SM= 1000BASE-RX SFP, 1490NM  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-D= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM-SFP-1470= CWDM-SFP-1470= CWDM-SFP-1470= CWDM-SFP-1490= CWDM-SFP-1470= CWDM-SFP-1610= CWDM-SFP-1610= CWDM-SFP-1610= CWDM-SFP Glgabit Ethernet and 1G/2G FC  CWDM-SFP-1610= CWDM-SFP-1610=	C3K-PWR-1150WAC=	Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply
C3K-PWR-300WAC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WAC power supply spare C3K-PWR-300WDC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare C3K-FAN-16CFM= Fan Module for the Catalyst 3560E-12D and Catalyst 3560E-12SD Redundant Power System for the Cisco Catalyst 3560E-8 Series PWR-RPS2300 Cisco Redundant Power System 2300 and Blower,No Power Supply ACC-RPS2300= Spare Accessory Kit for Cisco Redundant Power System 2300 BLNK-RPS2300= Spare RPS2300 Cable for Devices other than E-Series Switches CAB-RPS2300= Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches PWR-RPS2300= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches PWR-RPS2300= Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply BLWR-RPS2300= Spare ASCFM Blower for Cisco Redundant Power System 2300 C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare TwinGig Converter Module for the Cisco Catalyst 3560-E Series CVR-X2-SFP TwinGig Converter Module CVR-X2-SFP= TwinGig Converter Module SFPs for the Cisco Catalyst 3560-E Series GLC-GE-100FX= GLC-SX-MM= GE SFP, LC connector LX/LH transceiver GLC-SX-MM= GE SFP, LC connector SX transceiver GLC-SX-SM= GLC-SX-SEP GLC-SX-SEP SIONBASE-FX SFP GLC-BX-D= GLO-BX-SE-SX SFP, 1490NM GLC-BX-D= GLC-BX-D= GLO-BX-SE-SX SFP, 1490NM GLC-BX-D= GLC-BX-D= GLO-BX-SE-SX SFP, 1490NM GLC-BX-D= GLC-BX-D= GLO-BX-SFP-1470- CWDM-SFP-1470- CWDM-SFP-1490- CWDM-SFP-1490- CWDM-SFP-1450- CWDM-SFP-1510-	C3K-BLWR-60CFM=	Fan Module for the Catalyst 3750-E/3560-E
C3K-PWR-300WDC= Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare C3K-FAN-16CFM= Fan Module for the Catalyst 3560E-12D and Catalyst 3560E-12SD  Redundant Power System for the Cisco Catalyst 3560E-Series  PWR-RPS2300 Cisco Redundant Power System 2300 and Blower,No Power Supply ACC-RPS2300= Spare Accessory Kit for Cisco Redundant Power System 2300  BLNK-RPS2300= Spare Bay Insert for Cisco Redundant Power System 2300  CAB-RPS2300= Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300= Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply  BLWR-RPS2300= Spare 45CFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970.2960  GLC-H-SM= GE SFP, LC connector SX transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-T= 1000BASE-T SFP  GLC-ZX-SM= 1000BASE-ZX SFP  GLC-BX-D= 1000BASE-RX SFP, 1490NM  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	Power Supplies and Fan Module	e for the Cisco Catalyst 3560E-12D and Catalyst 3560E-12SD Aggregation Switches
C3K-FAN-16CFM= Fan Module for the Catalyst 3560E-12D and Catalyst 3560E-12SD  Redundant Power System for the Cisco Catalyst 3560-E Series  PWR-RPS2300	C3K-PWR-300WAC=	Catalyst 3560E-12D and Catalyst 3560E-12SD 300WAC power supply spare
Redundant Power System for the Cisco Catalyst 3560-E Series  PWR-RPS2300   Cisco Redundant Power System 2300 and Blower,No Power Supply  ACC-RPS2300=   Spare Accessory Kit for Cisco Redundant Power System 2300  BLNK-RPS2300=   Spare Bay Insert for Cisco Redundant Power System 2300  CAB-RPS2300=   Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300-E   Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300=   Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300-   Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply  BLWR-RPS2300-   Spare 45CFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC-   Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-1150WAC-   Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP   TwinGig Converter Module  CVR-X2-SFP   TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX=   100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM=   GE SFP, LC connector LX/LH transceiver  GLC-SX-MM=   GE SFP, LC connector SX transceiver  GLC-SX-MM=   GE SFP, LC connector SX transceiver  GLC-SX-MB=   1000BASE-TX SFP    GLC-BX-D=   1000BASE-TX SFP    GLC-BX-D=   1000BASE-TX SFP   1490NM    GLC-BX-U=   1000BASE-BX SFP, 1490NM    GLC-BX-U=   1000BASE-BX SFP, 1310NM    CWDM-SFP-1470=   CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWDM-SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWDM-SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWDM-SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWDM-SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWDM-SFP Gigabit Ethernet and 1G/2G FC    CWDM-SFP-1510=   CWD	C3K-PWR-300WDC=	Catalyst 3560E-12D and Catalyst 3560E-12SD 300WDC power supply spare
Cisco Redundant Power System 2300 and Blower,No Power Supply  ACC-RPS2300= Spare Accessory Kit for Cisco Redundant Power System 2300  BLNK-RPS2300= Spare Bay Insert for Cisco Redundant Power System 2300  CAB-RPS2300= Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300-E= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300= Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply  BLWR-RPS2300= Spare 45CFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-BX-D= 1000BASE-T SFP  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	C3K-FAN-16CFM=	Fan Module for the Catalyst 3560E-12D and Catalyst 3560E-12SD
ACC-RP\$2300= Spare Accessory Kit for Cisco Redundant Power System 2300 BLNK-RP\$2300= Spare Bay Insert for Cisco Redundant Power System 2300 CAB-RP\$2300= Spare RP\$2300 Cable for Devices other than E-Series Switches CAB-RP\$2300-E= Spare RP\$2300 Cable for Catalyst 3750E/3560E Switches PWR-RP\$2300= Spare RP\$2300 Chassis w/ Blower, PS blank, No Power Supply BLWR-RP\$2300= Spare 45CFM Blower for Cisco Redundant Power System 2300 C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RP\$ 2300 750WAC power supply spare C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RP\$ 2300 1150WAC power supply spare TwinGig Converter Module for the Cisco Catalyst 3560-E Series CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module SFPs for the Cisco Catalyst 3560-E Series GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960 GLC-LH-SM= GE SFP, LC connector LX/LH transceiver GLC-SX-MM= GE SFP, LC connector SX transceiver GLC-T= 1000BASE-T SFP GLC-BX-D= 1000BASE-X SFP, 1490NM GLC-BX-D= 1000BASE-BX SFP, 1490NM CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	Redundant Power System for the	e Cisco Catalyst 3560-E Series
BLNK-RPS2300= Spare Bay Insert for Cisco Redundant Power System 2300  CAB-RPS2300= Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300-E= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300= Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply  BLWR-RPS2300= Spare 45CFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-T= 1000BASE-T SFP  GLC-ZX-SM= 1000BASE-X SFP, 1490NM  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	PWR-RPS2300	Cisco Redundant Power System 2300 and Blower, No Power Supply
Spare RPS2300 Cable for Devices other than E-Series Switches  CAB-RPS2300-E= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300= Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply  BLWR-RPS2300= Spare 45CFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-T= 1000BASE-T SFP  GLC-ZX-SM= 1000BASE-BX SFP, 1490NM  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-D= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	ACC-RPS2300=	Spare Accessory Kit for Cisco Redundant Power System 2300
CAB-RPS2300-E= Spare RPS2300 Cable for Catalyst 3750E/3560E Switches  PWR-RPS2300= Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply  BLWR-RPS2300= Spare 45CFM Blower for Cisco Redundant Power System 2300  C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-T= 1000BASE-T SFP  GLC-ZX-SM= 1000BASE-TX SFP  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	BLNK-RPS2300=	Spare Bay Insert for Cisco Redundant Power System 2300
PWR-RPS2300= Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply BLWR-RPS2300= Spare 45CFM Blower for Cisco Redundant Power System 2300 C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare TwinGig Converter Module for the Cisco Catalyst 3560-E Series CVR-X2-SFP TwinGig Converter Module SFPs for the Cisco Catalyst 3560-E Series GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960 GLC-LH-SM= GE SFP,LC connector LX/LH transceiver GLC-SX-MM= GE SFP, LC connector SX transceiver GLC-ZX-SM= 1000BASE-T SFP GLC-ZX-SM= 1000BASE-T SFP GLC-BX-D= 1000BASE-BX SFP, 1490NM GLC-BX-U= 1000BASE-BX SFP, 1310NM CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	CAB-RPS2300=	Spare RPS2300 Cable for Devices other than E-Series Switches
BLWR-RPS2300= Spare 45CFM Blower for Cisco Redundant Power System 2300 C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare TwinGig Converter Module for the Cisco Catalyst 3560-E Series CVR-X2-SFP TwinGig Converter Module CVR-X2-SFP= TwinGig Converter Module SFPs for the Cisco Catalyst 3560-E Series GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960 GLC-LH-SM= GE SFP, LC connector LX/LH transceiver GLC-SX-MM= GE SFP, LC connector SX transceiver GLC-T= 1000BASE-T SFP GLC-ZX-SM= 1000BASE-ZX SFP GLC-BX-D= 1000BASE-ZX SFP GLC-BX-D= 1000BASE-BX SFP, 1490NM GLC-BX-U= 1000BASE-BX SFP, 1310NM CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	CAB-RPS2300-E=	Spare RPS2300 Cable for Catalyst 3750E/3560E Switches
C3K-PWR-750WAC= Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare  C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-T= 1000BASE-T SFP  GLC-ZX-SM= 1000BASE-ZX SFP  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	PWR-RPS2300=	Spare RPS 2300 Chassis w/ Blower, PS blank, No Power Supply
C3K-PWR-1150WAC= Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare  TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-T= 1000BASE-T SFP  GLC-ZX-SM= 1000BASE-ZX SFP  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	BLWR-RPS2300=	Spare 45CFM Blower for Cisco Redundant Power System 2300
TwinGig Converter Module for the Cisco Catalyst 3560-E Series  CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-T= 1000BASE-T SFP  GLC-ZX-SM= 1000BASE-ZX SFP  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	C3K-PWR-750WAC=	Catalyst 3750-E/3560-E/RPS 2300 750WAC power supply spare
CVR-X2-SFP TwinGig Converter Module  CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP,LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-T= 1000BASE-T SFP  GLC-ZX-SM= 1000BASE-ZX SFP  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	C3K-PWR-1150WAC=	Catalyst 3750-E/3560-E/RPS 2300 1150WAC power supply spare
CVR-X2-SFP= TwinGig Converter Module  SFPs for the Cisco Catalyst 3560-E Series  GLC-GE-100FX= 100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960  GLC-LH-SM= GE SFP, LC connector LX/LH transceiver  GLC-SX-MM= GE SFP, LC connector SX transceiver  GLC-T= 1000BASE-T SFP  GLC-ZX-SM= 1000BASE-ZX SFP  GLC-BX-D= 1000BASE-BX SFP, 1490NM  GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	TwinGig Converter Module for t	he Cisco Catalyst 3560-E Series
SFPs for the Cisco Catalyst 3560-E Series           GLC-GE-100FX=         100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960           GLC-LH-SM=         GE SFP, LC connector LX/LH transceiver           GLC-SX-MM=         GE SFP, LC connector SX transceiver           GLC-T=         1000BASE-T SFP           GLC-ZX-SM=         1000BASE-ZX SFP           GLC-BX-D=         1000BASE-BX SFP, 1490NM           GLC-BX-U=         1000BASE-BX SFP, 1310NM           CWDM-SFP-1470=         CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1490=         CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1510=         CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	CVR-X2-SFP	TwinGig Converter Module
GLC-GE-100FX=         100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960           GLC-LH-SM=         GE SFP,LC connector LX/LH transceiver           GLC-SX-MM=         GE SFP, LC connector SX transceiver           GLC-T=         1000BASE-T SFP           GLC-ZX-SM=         1000BASE-ZX SFP           GLC-BX-D=         1000BASE-BX SFP, 1490NM           GLC-BX-U=         1000BASE-BX SFP, 1310NM           CWDM-SFP-1470=         CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1490=         CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1510=         CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	CVR-X2-SFP=	TwinGig Converter Module
GLC-LH-SM=         GE SFP,LC connector LX/LH transceiver           GLC-SX-MM=         GE SFP, LC connector SX transceiver           GLC-T=         1000BASE-T SFP           GLC-ZX-SM=         1000BASE-ZX SFP           GLC-BX-D=         1000BASE-BX SFP, 1490NM           GLC-BX-U=         1000BASE-BX SFP, 1310NM           CWDM-SFP-1470=         CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1490=         CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1510=         CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	SFPs for the Cisco Catalyst 356	0-E Series
GLC-SX-MM=         GE SFP, LC connector SX transceiver           GLC-T=         1000BASE-T SFP           GLC-ZX-SM=         1000BASE-ZX SFP           GLC-BX-D=         1000BASE-BX SFP, 1490NM           GLC-BX-U=         1000BASE-BX SFP, 1310NM           CWDM-SFP-1470=         CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1490=         CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1510=         CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	GLC-GE-100FX=	100BASE-FX SFP for GE SFP port on 3750,3560.2970,2960
GLC-T=         1000BASE-T SFP           GLC-ZX-SM=         1000BASE-ZX SFP           GLC-BX-D=         1000BASE-BX SFP, 1490NM           GLC-BX-U=         1000BASE-BX SFP, 1310NM           CWDM-SFP-1470=         CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1490=         CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1510=         CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	GLC-LH-SM=	GE SFP,LC connector LX/LH transceiver
GLC-ZX-SM=         1000BASE-ZX SFP           GLC-BX-D=         1000BASE-BX SFP, 1490NM           GLC-BX-U=         1000BASE-BX SFP, 1310NM           CWDM-SFP-1470=         CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1490=         CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1510=         CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	GLC-SX-MM=	GE SFP, LC connector SX transceiver
GLC-BX-D=         1000BASE-BX SFP, 1490NM           GLC-BX-U=         1000BASE-BX SFP, 1310NM           CWDM-SFP-1470=         CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1490=         CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC           CWDM-SFP-1510=         CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	GLC-T=	1000BASE-T SFP
GLC-BX-U= 1000BASE-BX SFP, 1310NM  CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	GLC-ZX-SM=	1000BASE-ZX SFP
CWDM-SFP-1470= CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1490= CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC  CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	GLC-BX-D=	1000BASE-BX SFP, 1490NM
CWDM-SFP-1490= CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	GLC-BX-U=	1000BASE-BX SFP, 1310NM
CWDM-SFP-1510= CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1470=	CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC
<u> </u>	CWDM-SFP-1490=	CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1530= CWDM 1530 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1510=	CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC
I	CWDM-SFP-1530=	CWDM 1530 NM SFP Gigabit Ethernet and 1G/2G FC

CWDM-SFP-1550=	CWDM 1550 NM SFP Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1570=	CWDM 1570 NM SFP Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1590=	CWDM 1590 NM SFP Gigabit Ethernet and 1G/2G FC
CWDM-SFP-1610=	CWDM 1610 NM SFP Gigabit Ethernet and 1G/2G FC

DWDM SFPs for Cisco Cataly 3560E-12SD)	yst 3560-E Series (not currently supported with the Cisco Catalyst 3560E-12D & Catalyst
DWDM-SFP-6061=	DWDM SFP 1560.61 nm SFP (100 GHz ITU grid)
DWDM-SFP-5979=	DWDM SFP 1559.79 nm SFP (100 GHz ITU grid)
DWDM-SFP-5898=	DWDM SFP 1558.98 nm SFP (100 GHz ITU grid)
DWDM-SFP-5817=	DWDM SFP 1558.17 nm SFP (100 GHz ITU grid)
DWDM-SFP-5655=	DWDM SFP 1556.55 nm SFP (100 GHz ITU grid)
DWDM-SFP-5575=	DWDM SFP 1555.75 nm SFP (100 GHz ITU grid)
DWDM-SFP-5494=	DWDM SFP 1554.94 nm SFP (100 GHz ITU grid)
DWDM-SFP-5413=	DWDM SFP 1554.13 nm SFP (100 GHz ITU grid)
DWDM-SFP-5252=	DWDM SFP 1552.52 nm SFP (100 GHz ITU grid)
DWDM-SFP-5172=	DWDM SFP 1551.72 nm SFP (100 GHz ITU grid)
DWDM-SFP-5092=	DWDM SFP 1550.92 nm SFP (100 GHz ITU grid)
DWDM-SFP-5012=	DWDM SFP 1550.12 nm SFP (100 GHz ITU grid)
DWDM-SFP-4851=	DWDM SFP 1548.51 nm SFP (100 GHz ITU grid)
DWDM-SFP-4772=	DWDM SFP 1547.72 nm SFP (100 GHz ITU grid)
DWDM-SFP-4692=	DWDM SFP 1546.92 nm SFP (100 GHz ITU grid)
DWDM-SFP-4612=	DWDM SFP 1546.12 nm SFP (100 GHz ITU grid)
DWDM-SFP-4453=	DWDM SFP 1544.53 nm SFP (100 GHz ITU grid)
DWDM-SFP-4373=	DWDM SFP 1543.73 nm SFP (100 GHz ITU grid)
DWDM-SFP-4294=	DWDM SFP 1542.94 nm SFP (100 GHz ITU grid)
DWDM-SFP-4214=	DWDM SFP 1542.14 nm SFP (100 GHz ITU grid)
DWDM-SFP-4056=	DWDM SFP 1540.56 nm SFP (100 GHz ITU grid)
DWDM-SFP-3977=	DWDM SFP 1539.77 nm SFP (100 GHz ITU grid)
DWDM-SFP-3898=	DWDM SFP 1538.98 nm SFP (100 GHz ITU grid)
DWDM-SFP-3819=	DWDM SFP 1538.19 nm SFP (100 GHz ITU grid)
DWDM-SFP-3661=	DWDM SFP 1536.61 nm SFP (100 GHz ITU grid)
DWDM-SFP-3582=	DWDM SFP 1535.82 nm SFP (100 GHz ITU grid)
DWDM-SFP-3504=	DWDM SFP 1535.04 nm SFP (100 GHz ITU grid)
DWDM-SFP-3425=	DWDM SFP 1534.25 nm SFP (100 GHz ITU grid)
DWDM-SFP-3268=	DWDM SFP 1532.68 nm SFP (100 GHz ITU grid)
DWDM-SFP-3190=	1000BASE-DWDM 1531.90 nm SFP (100 GHz ITU grid)
DWDM-SFP-3112=	1000BASE-DWDM 1531.12 nm SFP (100 GHz ITU grid)
DWDM-SFP-3033=	DWDM SFP 1530.33 nm SFP (100 GHz ITU grid)
10GB X2 Module for Cisco C	atalyst 3560-E Series
X2-10GB-ER=	10GBASE-ER X2 Module
(2-10GB-LR=	10GBASE-LR X2 Module
K2-10GB-SR=	10GBASE-SR X2 Module
(2-10GB-LRM=	10GBASE-LRM X2 Module
X2-10GB-LX4=	10GBASE-LX4 X2 Module
X2-10GB-CX4=	10GBASE-CX4 X2 Module
LC to SC Cables for the Cisc	o Catalyst 3560-E Series

CSS5-CABLX-LCSC=	CSS11500 10-Meter Fiber Single Mode LX LC-to-SC Connectors	
CSS5-CABSX-LC=	CSS11500 10-Meter Fiber Multimode SX LC Connectors	
CSS5-CABSX-LCSC=	CSS11500 10-Meter Fiber Multimode SX LC-to-SC Connectors	
Spare Power Cords for the Cisc	co Catalyst 3560-E Series	
CAB-AC=	Power Cord, 110V	
CAB-16AWG-AC=	AC Power cord, 16AWG	
CAB-ACA=	Plug, Power Cord, Australian, 10A	
CAB-ACE=	Power Cord Europe	
CAB-ACI=	Power Cord-Italian	
CAB-ACR=	Power Cord Argentina	
CAB-ACS=	Power Cord for Switzerland	
CAB-ACU=	Power Cord UK	
CAB-JPN=	Power Cord-Japan	
CAB-L620P-C13-US=	Power Cord, 250VAC, 15A, NEMA L6-20 to C13, US	
CAB-L620P-C13-JPN=	Power Cord, 250VAC, 15A, NEMA L6-20 to C13, JAPAN	
CAB-IND=	Power Cord India	
CAB-SFP-50CM=	Catalyst 3560-E SFP Interconnect Cable, 50cm	
Spare Rack Mount Kits for the Cisco Catalyst 3560-E Series		
RCKMNT-E-1RU=	Rack Mount Kit (1RU) for Catalyst 3750-E and 3560-E	
Cisco Catalyst 3560-E Relicensing for Used Equipment		
LL-3560E-IPB=	IP Base SW Feature set license for Catalyst 3560-E Series	
LL-3560E-IPS=	IP Services SW Feature set license for Catalyst 3560-E Series	
LL-3560E-AIS=	Advanced IP Services SW Feature set license for Catalyst 3560-E	
Software Application Support Plus Upgrades Technical Services Contract		
Product Part Number	Service Contract Number	
3560E-AISK9-LIC-B	Catalyst 3560-E AIS Upgrade from IP Base	
3560E-AISK9-LIC-S	Catalyst 3560-E AIS Upgrade from IP Svcs	
3560E-IPS-LIC-B	Catalyst 3560-E IPS Upgrade from IP Base	
3560E12D-AK9LB-QTY	Advanced IP Services for 3560E-12D, upgrade from IP Base	
3560E12D-AK9LS-QTY	Advanced IP Services for 3560E-12D, upgrade from IP Services	
3560E12D-SLB-QTY	IP Services for 3560E-12D, upgrade from IP Base	
3560E12SD-AK9LB-QTY	Advanced IP Services for 3560E-12SD, upgrade from IP Base	
3560E12SD-AK9LS-QTY	Advanced IP Services for 3560E-12SD, upgrade from IP Services	
	IP Services for 3560E-12SD, upgrade from IP Base	

# **For More Information**

For more information about the Cisco Catalyst 3560-E Series Switches, visit: <a href="http://www.cisco.com/en/US/products/hw/switches/index.html">http://www.cisco.com/en/US/products/hw/switches/index.html</a> or contact your local account representative.



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Printed in USA C78-377226-02 01/08