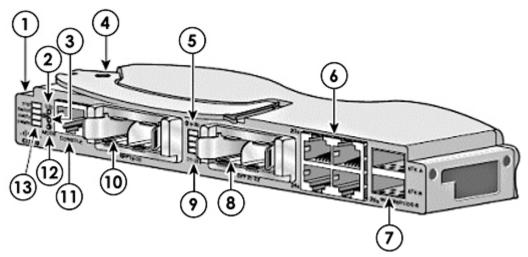
Overview

The next generation in switching technology. The Cisco Catalyst Blade Switch 3120 Series Switches are specifically designed to meet the rigors of the blade server based application infrastructure and provides HP BladeSystem customers with the ability to stack up to nine switches into a single virtual Switch. By emulating a redundant top-of-rack switch, HP BladeSystem c-Class users now have an integrated switching solution from Cisco Systems that optimizes uplinks per rack, reduces the number of switches managed and decreases network complexity. Both switches also provide Cisco resiliency, advanced security and enhanced manageability to the server edge while dramatically reducing cabling requirements. The Cisco Catalyst Blade Switch 3120 comes in two versions. The 3120G is a 1Gb switch with the flexibility to provide both copper and fiber uplinks. The 3120X has sixteen 1Gb downlinks and both 1Gb and 10Gb uplinks that can be used to aggregate bandwidth from multiple enclosures, or be used as a stand-alone switch in high bandwidth applications. The Cisco CBS3120 offers operational consistency with the rest of the industry leading Cisco Catalyst series of switches, using the familiar IOS Command Line Interface (CLI), consistent MIBs, and management tools like CiscoWorks. Furthermore, this consistency with the rest of the Cisco Catalyst series ensures end-to-end network service like QoS are consistently implemented across the network.

Both switches can be upgraded with additional features including full layer 3 routing and full IPv6 network compatibility through advanced firmware add-ons available at time of purchase or through web downloads.



Cisco Catalyst Blade Switch 3120 Series

- 1. Switch Module
- 2. UID LED
- 3. Health LED
- 4. Release latch
- 5. LEDs for ports 19 -20
- 6. Gigabit Ethernet RJ-45 Ports 23 -26
- 7. StackWise Ports

- 8. Slot for Cisco Twin Gigabit Module or X2 Transceiver module.
- 9. LEDs for ports 21 -22
- 10 Slot for Cisco Twin Gigabit Module or X2 Transceiver module
- 11. Console Port
- 12. Mode Button
- 13. Switch System LED Panel



Models and Options

Models	
Cisco Catalyst Blade Switch 3120X for HP	451439-B21
Cisco Catalyst Blade Switch 3120G for HP	451438 -B21
Options	
Cisco Ethernet Fiber SFP module	378929-B21
NOTE: The modules listed below support Cisco Catalyst Blade Switch 3120X for HP (p/n 451439-B21) only	
Cisco 10GBASE-CX4 X2 Module	459005-B21
NOTE: The software upgrades listed below support the Cisco Catalyst Blade Switch 3120X and 3120G Switches.	
HP Catalyst Blade Switch 3120 IP Service Software Upgrade	455046-B21
HP Catalyst Blade Switch 3120 Advanced IP Service Software Upgrade	455047-B21



Standard Features

Standard Features

Performance

- Wire speed switching on sixteen internal 1Gb ports.
- Wire Speed switching on four external 10/100/1000BASE-T ports. (Two of these ports can be used as cross-connects to provide failover protection).
- Wire speed switching on four external 10/100/1000 SFP based ports that can be configured in addition to the four10/100/1000BASE-T ports to support Fiber SX/LX SFP modules from Cisco Systems.
- Two external 10Gb X2 based ports that support SR, LRM and CX4 modules (Cisco Catalyst Blade Switch 3120X only)
- Two 64Gb stacking ports
- One external console port.

Management

- CiscoWorks Software that includes multilayer feature configurations such as routing protocols, ACLs, and QoS parameters.
- Compatible with Cisco Network Assistant
- Supports both Embedded Events Manager (EEM) and Generic On-line Diagnostics (GOLD)
- IOS CLI support providing a common user interface and command set with all Cisco routers and Cisco Catalyst desktop switches.
- The Catalyst Blade Switch 3120 series supports an embedded Remote Monitoring (RMON) software agent for enhanced traffic management, monitoring and analysis.

Security

- VLAN Virtual Local Area Network is a logical network topology configured on top of a physical network topology which conserves bandwidth and improves security by limiting traffic to specific groups of devices.
- Supports Cisco's Identity-Based Networking Services (IBNS) which prevents unauthorized network access and insures that users get only their designated privileges.
- Compatible with Cisco Secure Access Control Server (ACS) so that user security profiles and authentication follow the user regardless of where they connect on the network.
- Access Control Lists (ACL's) are maintained in hardware for maximum performance and can be used to guard against denialof-service and other attacks.
- 802.1x Port Security recognizes the MAC address of the device connecting to it and will set rights or limitations based on predefined security thresholds.

Stacking

- Up to nine 3120 switches can be combined into a single virtual stack.
- Switches can be managed as a single virtual switch with a single IP address and single routing domain.
- 64 Gb stacking fabric provides flexible and redundant ring architecture eliminating any single point of failure.



Compatibility

Compatibility

HP ProLiant Servers	HP ProLiant BL460c Server Blade
	HP ProLiant BL465c Server Blade
	HP ProLiant BL465c G5 Server Blade
	HP ProLiant BL480c Server Blade
	HP ProLiant BL680c G5 Server Blade
	HP ProLiant BL685c Server Blade
HP Integrity Server Blade	HP Integrity BL860c Server Blade
HP ProLiant c-Class Server Blade Enclosures	HP BladeSystem c3000 Enclosure HP BladeSystem c7000 Enclosure

Required Network Cabling	10Base-T	Categories 3, 4 or 5 UTP (100 meters) EIA/TIA-568 100-ohm STP (100 meters)
	100Base-TX	Category 5 UTP (100 meters) EIA/TIA-568 100-ohm STP (100 meters)
	1000Base-T	Category 5 UTP (100 meters) EIA/TIA-568 100-ohm STP (100 meters)
	1000Base-SX	50/125 μm Multimode Fiber, 400 MHz/Km (500 meters) 50/125 μm Multimode Fiber, 500 MHz/Km (550 meters) 62.5/125 μm Multimode Fiber, 160 MHz/Km (220 meters) 62.5/125 μm Multimode Fiber, 200 MHz/Km (275 meters)
	1000Base LX	Operates on standard single-mode fiber-optic link spans of up to 10 km and up to 550 m on any multimode fibers.
	10Gb	Multimode fiber cable; 62.5/125 or 50/125 microns Singlemode fiber cable: 9/125 micron The following CX4 cable lengths have been qualified and can be purchased directly from HP. HP BLadeSystem c-Class.5m 10-GbE CX4 Cable HP BLadeSystem c-Class 1m 10-GbE CX4 Cable HP BLadeSystem c-Class 15m 10-GbE CX4 Cable



Compatibility

HP Service and Support Offerings

To fully capitalize on your HP BladeSystem servers' capabilities requires a service partner who thoroughly understands your server technology and systems environment. HP Services, an industry leader in provision of multi vender support solutions provides a range of support services designed to meet the varying needs of business. Whether an SMB or large global corporation HP has a HP BladeSystem server support offer to help you speedily deploy and maximize system uptime.

Recommended Service - Simplify HP ProLiant solution implementation, maintenance and management.

- Support Service- 4-Hour Response Coverage, 3-Year, 24 x 7, Same Business Day
- Deployment Service Installation and Start Up for HP BladeSystem Infrastructure

Enhanced Service - Optimize service level to increase IT performance and availability

- Support Service HP Proactive BladeSystem Service, 1-Year
- Deployment Service Enhanced Network Installation and Start-up for HP BladeSystem Switches

Installation & Start-Up service for HP BladeSystem Infrastructure plus HP BladeSystem Enhanced Network Installation and Start-UP as per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excluding HP holidays. For a complete listing of service offerings and information visit: http://www.hp.com/services/bladesystemservices http://www.hp.com/go/proliant/carepack



Related Options

Cisco Modules	Cisco Ethernet Fiber SFP module NOTE: The modules listed below support Cisco Catalyst Blade Switch 3120X for HP	378929-B21
	(p/n 451439-B21) only	
	Cisco 10GBASE-CX4 X2 Module	459005-B21
	Cisco 10GBASE-SR X2 Module	459006-B21
	Cisco 10GBASE-LRM X2 Module	459007-B21
Service and Support Offerings (HP Care Pack Services)	NOTE: HP Care Pack services for the c7000 Enclosure cover the enclosure, power supplies and fans. HP qualified rack options are covered by these services when installed within the same rack. HP supported c-Class enclosure devices including pass thru, Ethernet interconnect and virtual connect modules are also covered by the c7000 enclosure Care Pack services.	
	NOTE: SAN/Fabric switches for the HP c-Class BladeSystem are not covered under the c7000 enclosure Care Packs, SAN/Fabric switches carry separate Care Packs. SAN/Fabric Switch Care Pack service level support should always be uplifted to match existing storage or server service level.	
	Hardware Support Services On-site Service	
	c7000 HP Care Pack Services	
	Next Business Day On-site Service, 5-Day x 9-Hour Coverage, 3 Years, Electronic NOTE: Uplifts the Ethernet devices to the same level of warranty as the c-class enclosure	UE477E
	4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic	UE478E
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	UE479E
	6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	UE480E
	Support Plus 24	
	Onsite HW support 24x7, 4hr response and Insight Control Linux Edition SW Updates, SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time including HP holidays, Electronic	UH321E
	Onsite HW support 24x7, 4hr response and Insight Control Environment for BladeSystem SW Updates, SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time including HP holidays, Electronic	UH322E
	Onsite HW support 24x7, 4hr response and Insight Control Data Center Edition SW Updates, SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time including HP holidays, Electronic	UH323E
	Hardware Services On-site Service	
	c3000 HP Care Pack Services	
	Next Business Day On-site Service, 5-Day x 9-Hour Coverage, 3 Years, Electronic - uplifts the Ethernet devices to the same level of service as the c-class enclosure	UH309E
	4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic	UH310E
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	UH311E
	6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	UH312E
	Support Plus 24	



Related Options

Onsite HW support 24x7, 4hr response and Insight Control Environment for BladeSystem SW Updates SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	UF540E
Installation & Start-up Services	
HP BladeSystem c7000 Infrastructure Installation and Startup Service for Blade Hardware and Insight Control Software, Electronic	UE602E
HP BladeSystem c3000 + ICE + OS Installation and Startup Service for Blade Hardware and Insight Control Software, Electronic	UF817E
HP BladeSystem c3000 Installation & Startup for Blade Hardware and Operating System	UF818E
HP BladeSystem c7000 Enhanced Network Installation and Startup Service, Electronic	UE603E
HP BladeSystem c3000 Enhanced Network Installation and Startup Service, Electronic	UF814E
ProLiant BL c-Class Blade Server Hardware Installation, Electronic	UE493E
ProLiant BL c-Class Enclosure and Server Blade Hardware Installation, Electronic	UE494E
NOTE: For more information, customer/resellers can contact http://www.hp.com/services/bladesystemservices	



Technical Specifications

Shipping Dimensions	Length	352.55mm (13.	.88 in)			
	Width	270.00mm (10	.63 in)			
	Height	120.65mm (4.7	′5 in)			
Shipping Weight		2.0Kg (4.4lbs)				
Product Specifications Hardware	Performance	128 Gbps switc 64 Gbps stackir	0 (alyst 3120X)		
		Forwarding rate	based on 64-b	yte packets; up	to 59.2 Mpps	
		256 MB DDR SI	DRAM and 64 N	/IB Flash memo	vry	
		Configurable m frames)	aximum transmi	ssion unit (MTL	J) of up to 9018	8 bytes (jumbo
		MAC, routing, s template used		S scalability nu	mbers depend	on the type of
			Default Template	Access Template	VLAN Template	Routing Template
		MAC address	6K	4K	12K	ЗK
		IGMP groups and multicast routes	١K	1K	1K	1K
		Total unicast routes	8K	6K	OK	11K
		Directly connected hosts	6K	4K	OK	3К
		Indirect routes	2K	2K	ОK	8K
		Security ACEs	1K	2K	1K	1K
		QoS ACEs	0.5K	0.5K	0.5K	0.5K
		PBR ACEs	0	0.5K	0	0.5K
	Connectors and Cabling	3120G Gigabit	Ethernet uplin	c ports (Up to 8	external)	

- 4 external 10/100/1000BASE-T RJ-45 ports. Two of these ports can be configured to provide an internal crossover connection to an associated additional Cisco Catalyst Blade Switch 3120
- The supplied Twin-Gig Converter Module will provide 4 additional external 10/100/1000 SFP combo ports. that support Gigabit Ethernet Fiber SX or LX SFP modules from Cisco Systems.

3120X 1Gb/10Gb Ethernet uplink ports (up to eight external)

- 4 external 10/100/1000BASE-T RJ-45 ports. Two of these ports can be configured to provide an internal crossover connection to an associated additional Cisco Catalyst Blade Switch 3120
- 2 external 10Gb X2 ports. These ports support CX4, LX or SX modules.
- The 2 X2 ports can optionally be used to provide up to 4 10/100/1000 SFP combo ports using the supplied Twin-Gig Converter Module



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Technical Specificati	ions	
		Management console port:
		• RJ-45-to-DB9 cable for PC connections
		Stacking Connector
	Indicators	 1 meter Cisco proprietary StackWise connector cable supplied. .5 meter and 3 meter Cisco proprietary StackWise connector cable optional. Total of 18 LEDs on the face place
		 12 LEDs for uplink port status 4 Switch status LEDs 2 HP specific LEDs to indicate Health and UID status
System Unit	Dimensions (L x W x D)	10.5in (267.7mm) x 7.5 in (92.79mm)x 1.1 in (27.94mm)
	Weight	1.27Kg (2.8 Lbs)
	Environmental Ranges	Temperature Range
		Operating Temperature 0 to 43 C (32 to 109 F)
		Storage Temperature -20 to 70 C (-4 to 158F)
		Operating Relative 10 to 85% Humidity (non-condensing)
		Storage Relative Humidity 5 to 95% (non-condensing)
	Power Specifications	12V @ 5A (60 W)
Product Specifications Software	Security Features	The Catalyst Blade Switch 3120 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.
		Security features include:
		Dynamic ARP Inspection (DAI) helps ensure user integrity by preventing malicious users from exploiting the insecure nature of the ARP protocol.
		DHCP Snooping prevents malicious users from spoofing a DHCP server and sending out bogus addresses. This feature is used by other primary security features to prevent a number of other attacks such as ARP poisoning.
		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

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Cisco Catalyst Blade Switch 3120G for HP

Technical Specifications

address, port, and VLAN.

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 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.

Cisco security VLAN ACLs on all VLANs prevents 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 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.



Technical Specifications	
	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.
Spanning Tree Features	IEEE 802.1D Spanning-Tree Protocol support for redundant backbone connections and loop-free networks simplifies network configuration and improves fault tolerance. Per-VLAN Rapid Spanning-Tree (PVRST+) allows rapid spanning-tree convergence on a per-VLAN spanning-tree basis, without requiring the implementation of spanning-tree instances. IEEE 802.1s Multiple Spanning-Tree Protocol (MSTP) allows a spanning-tree instance per VLAN and enables each VLAN to use a different uplink allowing
	better utilization of uplinks. IEEE 802.1 w Rapid Spanning-Tree Protocol (RSTP) provides rapid spanning- tree convergence independent of spanning-tree timers. Unidirectional Link Detection (UDLD) and Aggressive UDLD allow unidirectional links to be detected and disabled to avoid problems such as spanning-tree loops.
Trunking Features	Cisco UplinkFast and BackboneFast technologies help to ensure quick failover recovery, enhancing overall network stability and reliability. PVST+ allows for Layer 2 load sharing on redundant links to efficiently use the extra capacity inherent in a redundant design. Dynamic Trunking Protocol (DTP) enables dynamic trunk configuration across all switch ports.
	Port Aggregation Protocol (PAgP) automates the creation of Cisco Fast EtherChannel® groups or Gigabit EtherChannel® groups to link to the upstream switch/router, or server blades Link Aggregation Control Protocol (LACP) allows the creation of Ethernet channeling with upstream switches that conform to IEEE 802.3ad. This feature is similar to Cisco EtherChannel technology and PAgP.
VLAN Features	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. 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.
Quality of Service	Wire-rate performance for highly granular QoS functions (for example,



Technical Specifications	
Features	granular rate limiting).
	Cross-switch QoS allows QoS to be configured across the entire VBS.
	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.
	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.
Management Features	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. Cisco IOS Software CLI support provides common user interface and
	command set with all Cisco routers and Cisco Catalyst desktop switches.
	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.
	Generic On-Line Diagnostic (GOLD) checks the health of hardware components and verifies proper operation of the system data and control plane at run time and boot time.
	Embedded Event Manager (EEM) allows customers to set up trigger points based on certain events to automatically take actions, thus automating network management
	VPN routing/forwarding (VRF)-Lite enables a service provider to support two or more VPNs, with overlapping IP addresses.
	Local Proxy Address Resolution Protocol (ARP) works in conjunction with Private VLAN Edge to minimize broadcasts and maximize available bandwidth.



Technical Specifications

VLAN1 minimization allows VLAN1 to be disabled on any individual VLAN trunk.

Smart Multicast, with Cisco Virtual Blade Switch technology, allows the Cisco Catalyst Blade Switch 3120 to offer greater efficiency and support for more multicast data streams such as video by putting each data packet onto the backplane only once.

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 bandwidth-intensive 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.

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;

Jumbo frames (9216 bytes) are available for advanced data and video applications requiring very large frames.

SNMP v1, v2c, and v3 and Telnet interface support deliver comprehensive in-band management, and a CLI-based management console provides detailed out-of-band management.

Cisco Discovery Protocol versions 1 and 2 enable a network-management station for automatic switch discovery.

CiscoWorks Features CiscoWorks network-management software provides management capabilities on a per-port and per-switch basis, providing a common management interface for Cisco routers, switches, and hubs. SNMP v1, v2c, and v3 and Telnet interface support deliver comprehensive



Technical Specifications

in-band management, and a CLI-based management console provides detailed out-of-band management. Cisco Discovery Protocol versions 1 and 2 enable a CiscoWorks networkmanagement station for automatic switch discovery.

		management station for automatic switch discovery.
Management and Standards Support	Management Information Base (MIB) Support	The MIBs listed in this section are supported in each of IPBase, IPServices, and Advanced IPServices feature sets for both switches.
		 BRIDGE-MIB CISCO-AAA-SESSION-MIB CISCO-ACCESS-ENVMON-MIB CISCO-BRIDGE-EXT-MIB CISCO-BULK-FILE-MIB CISCO-COP-MIB CISCO-CIRCUIT-INTERFACE-MIB CISCO-CUSTER-MIB CISCO-CONFIG-COPY-MIB CISCO-CONFIG-MAN-MIB CISCO-CONFIG-MAN-MIB CISCO-CONFIG-MIB CISCO-CONFIG-MIB CISCO-ENTITY-FRU-CONTROL-MIB CISCO-ENTITY-VENDORTYPE-OID-MIB CISCO-ENTITY-VENDORTYPE-OID-MIB CISCO-FINAMIB CISCO-FINAMIB CISCO-FINAMIB CISCO-FINAMIB CISCO-FINAMIB CISCO-IFSRP-MIB CISCO-IFSRP-MIB CISCO-IFSRP-MIB CISCO-IFSRP-MIB CISCO-IGMP-FILTER-MIB CISCO-IGMP-FILTER-MIB CISCO-IGMP-FILTER-MIB CISCO-IP-STAT-MIB CISCO-IP-STAT-MIB CISCO-IP-STAT-MIB CISCO-IPAROUTE-MIB CISCO-I213-INTERFACE-CONFIG-MIB CISCO-I221-INTERFACE-CONFIG-MIB CISCO-IAG-MIB CISCO-IAG-MIB CISCO-NEMORY-POOL-MIB CISCO-PAGP-MIB CISCO-PAGP-MIB CISCO-PAGP-MIB CISCO-PORT-STORM-CONTROL-MIB CISCO-PORT-STORM-CONTROL-MIB CISCO-PORT-STORM-CONTROL-MIB CISCO-PROESS-MIB CISCO-PROCUSS-MIB CISCO-PRODUCTS-MIB CISCO-PRODUCTS-MIB CISCO-PRODUCTS-MIB CISCO-PRODUCTS-MIB CISCO-PRODUCTS-MIB CISCO-PRODUCTS-MIB

- CISCO-SMI
- CISCO-STACK-MIB



Cisco Catalyst Blade Switch 3120G for HP

Technical Specifications

- CISCO-STACKMAKER-MIB
- CISCO-STACKWISE-MIB
- CISCO-STP-EXTENSIONS-MIB
- CISCO-SYSLOG-MIB
- CISCO-TC
- CISCO-TCP-MIB
- CISCO-UDLDP-MIB
- CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB
- CISCO-VLAN-MEMBERSHIP-MIB
- CISCO-VTP-MIB
- DOT3-MAU-MIB
- ENTITY-MIB
- ETHERLIKE-MIB
- HC-RMON-MIB
- IEEE8021-PAE-MIB
- IEEE8023-LAG-MIB
- IF-MIB
- IGMP-MIB
- IPMROUTE-STD-MIB
- OLD-CISCO-CHASSIS-MIB
- OLD-CISCO-CPU-MIB
- OLD-CISCO-FLASH-MIB
- OLD-CISCO-INTERFACES-MIB
- OLD-CISCO-IP-MIB
- OLD-CISCO-MEMORY-MIB
- OLD-CISCO-SYSTEM-MIB
- OLD-CISCO-TCP-MIB
- OLD-CISCO-TS-MIB
- PIM-MIB
- RFC1213-MIB
- RMON-MIB
- RMON2-MIB
- SMON-MIB
- SNMP-FRAMEWORK-MIB
- SNMP-NOTIFICATION-MIB
- SNMP-PROXY-MIB
- SNMP-TARGET-MIB
- SNMP-USM-MIB
- SNMP-VACM-MIB
- SNMPv2-MIB
- TCP-MIB
- UDP-MIB

Additional MIBs Supported by IPServices

- ATM-MIB
- BGP4-MIB
- CISCO-AAL5-MIB
- CISCO-ATM-EXT-MIB
- CISCO-ATM-PVC-MIB
- CISCO-ATM-PVCTRAP-EXTN-MIB
- CISCO-ATM-QOS-MIB



Cisco Catalyst Blade Switch 3120G for HP

Technical Specifications

- CISCO-BGP4-MIB
- CISCO-CLASS-BASED-QOS-MIB
- CISCO-FRAME-RELAY-MIB
- CISCO-IETF-ATM2-PVCTRAP-MIB
- CISCO-IETF-IP-MIB
- CISCO-IETF-ISIS-MIB
- CISCO-OSPF-MIB
- CISCO-OSPF-TRAP-MIB
- CISCO-RF-MIB
- MSDP-MIB
- OSPF-MIB
- OSPF-TRAP-MIB
- RFC1315-MIB

Additional MIBs Supported by Advanced IPServices

- CISCO-BGP-POLICY-ACCOUNTING-MIB
- CISCO-IETF-IP-FORWARD-MIB
- CISCO-IPSEC-FLOW-MONITOR-MIB
- CISCO-IPSEC-MIB
- CISCO-SLB-EXT-MIB
- CISCO-SLB-MIB
- MPLS-LDP-MIB
- MPLS-LSR-MIB
- MPLS-TE-MIB
- RFC2006-MIB

Standards

IN C2000-Mills
IEEE 802.1s
IEEE 802.1w
IEEE 802.3ad
IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports
IEEE 802.1D Spanning-Tree Protocol
IEEE 802.1p CoS Prioritization
IEEE 802.1Q VLAN
IEEE 802.3 10BASE-T specification
IEEE 802.3u 100BASE-TX specification
IEEE 802.3z 1000BASE-T specification
IEEE 802.3z 1000BASE-T specification
IEEE 802.3z 1000BASE-X specification
IEEE 802.3z 1000BASE-X specification
IO00BASE-SX
RMON I and II standards



Safety and Compliance	Safety Certifications	UL/CUL Recognition to UL/CSA 60950-1 TUV to EN 60950-1 CB report and certificate to IEC 60950-1 with all country deviations CE Marking
Electromagnetic Emissions Certifications FCC Part 15 Class A	FCC Part 15 Class A EN 55022 Class A (CISPF VCCI Class A AS/NZS 3548 Class A or MIC Class A CE Marking	222 Class A)
Telecommunications	CLEI Code	
Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Technical Specifications

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