Cisco Catalyst 1200 Series Switches

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Build a reliable, easy-to-use business network at an affordable price

From connectivity to cloud applications, networking plays a crucial role in every business journey. Reliability, security, and affordability continue to be top of mind, while ongoing management and operations add complexity that takes time and resources.

The Cisco Catalyst™ 1200 Series Switches are affordable switches designed and built for small and medium-sized businesses. Managed through the Cisco® Business mobile app or dashboard, the switch portfolio provides a simple and reliable experience.

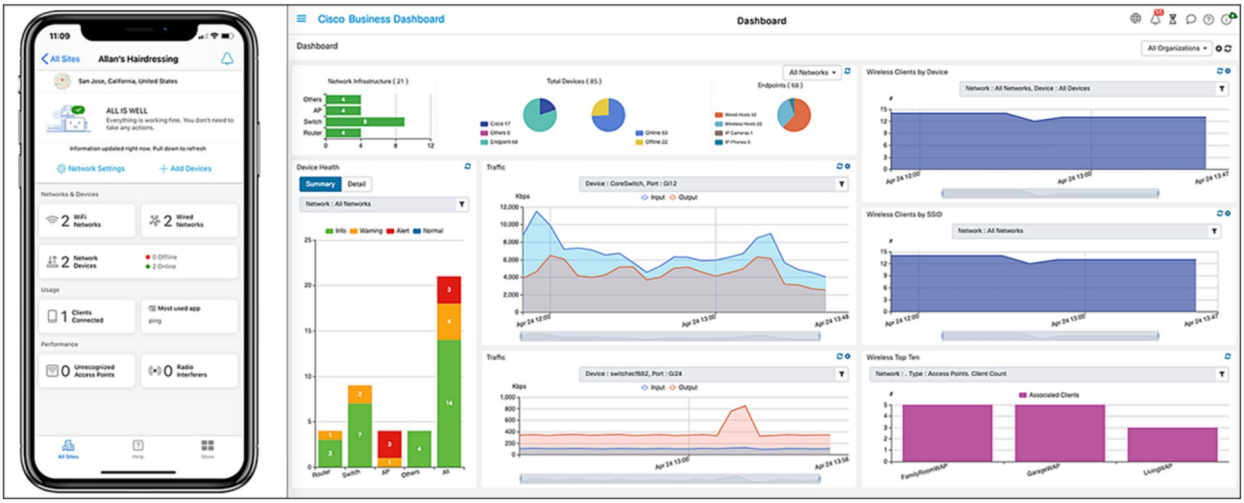


Figure 1.
Cisco Business Dashboard and Cisco Business mobile app

Cisco Catalyst 1200 Series switches

The Cisco Catalyst 1200 Series is the next generation of affordable switches, combining powerful performance and reliability with a complete suite of the features you need for a small or medium-sized business network. The switches operate on customized Linux OS software and provide flexible management options, comprehensive security capabilities, and Layer 3 static routing features far beyond those of an unmanaged or consumer-grade switch, at a lower cost than for fully managed switches. When you need a reliable solution to share online resources and connect computers, phones, and wireless access points, the Catalyst 1200 Series switches provide the ideal solution at an affordable pricing point.

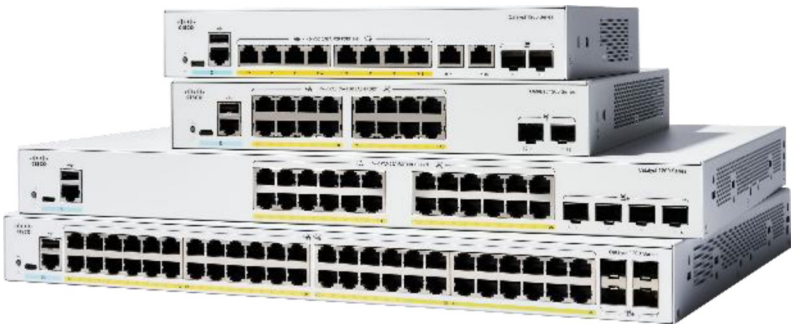


Figure 2.
Cisco Catalyst 1200 Series switches

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Business applications

Whether you require basic, high-speed connectivity for your computers and servers or a comprehensive voice, data, and wireless technology solution, the Cisco Catalyst 1200 Series Switches can meet your business needs. Possible deployment scenarios include:

- **High-speed desktop connectivity:** The 1200 Series switches can quickly and securely connect employees working in small offices with one another and with all of the printers, servers, and other networking devices they use. High performance and reliable connectivity help speed up file transfers and data processing, improve network uptime, and keep your employees productive.
- **Flexible wireless connectivity:** The 1200 Series switches work with Cisco and third-party wireless solutions to extend the reach of your network. With security features, Power over Ethernet Plus (PoE+), VLAN, and Quality of Service (QoS), these switches are the perfect foundation to add enterprise-grade wireless solutions to a network. The capability of up to 30W of power per port provided through the Ethernet cable means you can easily deploy Cisco Business wireless access points to maximize workforce productivity.
- **Unified communications:** The 1200 Series provides QoS features that enable you to prioritize delay-sensitive traffic in your network and converge all of your communications solutions, such as IP telephony and video surveillance, onto a single Ethernet network. Cisco offers a complete portfolio of IP telephony and other unified communications products designed for small businesses, and the 1200 Series switches have been rigorously tested to help ensure easy integration and full compatibility with these and other products.

Features and benefits

The Cisco Catalyst 1200 Series switches provide all of the features you need to create a basic enterprise-class network at an affordable price. These features include:

- **Easy configuration and management:** The 1200 Series switches are designed to be easy to deploy and use by small and medium-sized businesses or the partners that serve them:
  - The Cisco Business Dashboard is designed to manage the 1200 Series switches and lets you easily customize the interface and widgets to proactively manage your network. The switches support an embedded probe as well as direct management, eliminating the need to set up a separate hardware or virtual machine onsite. The device onboarding wizard simplifies the setup and onboading of new devices to the network. For more information, visit https://www.cisco.com/go/cbd.
  - The Cisco Network Plug and Play solution provides a simple, secure, unified, and integrated offering to ease new device rollouts or for provisioning updates to an existing network. The solution provides a unified approach to provisioning Cisco routers, switches, and wireless devices with a near-zero-touch deployment experience.
  - The redesigned modern web user interfaces reduce the time required to deploy, troubleshoot, and manage the network. Configuration wizards simplify the most common configuration tasks and provide the ultimate tool for anyone to set up and manage the network.
  - The switches support an external Bluetooth dongle that plugs into the USB port on the switch and allows a Bluetooth-based RF connection with external laptops and tablets. Laptops and tablets can access the switch Command-Line Interface (CLI) using a Telnet or Secure Shell (SSH) client over Bluetooth. The GUI can be accessed over Bluetooth with a browser.

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- **Reliability and performance:** The Cisco Catalyst 1200 Series Switches have been tested to deliver the high performance and reliability you would expect from a Cisco switch and help you prevent costly downtime. The switches speed file transfer times, improve slow and sluggish networks, keep your vital business applications available, and help your employees respond more quickly to customers and each other. With a network based on Catalyst 1200 Series switches, you can address all of your business communications and connectivity needs and reduce the total cost of ownership of your technology infrastructure. The 1200 Series switches support 10 Gigabit Ethernet uplinks on select models, so you can build a high-performance and future-ready network to support your thriving business.
- **Layer 3 static routing:** This capability allows you to segment your network into separate workgroups and communicate across VLANs without degrading application performance. As a result, you can manage internal routing with your switches and dedicate your router to external traffic and security, helping your network run more efficiently.
- **Power over Ethernet:** The 1200 Series switches are available with PoE+ on Gigabit Ethernet models. This capability enables you to deploy IP telephony, wireless, video surveillance, and other solutions with just a single network cable, thereby eliminating the need for separate power supplies or cabling. PoE+ provides up to 30W of power per port, ideal for deployments of 802.11ac wireless access points, Pan-Tilt-Zoom (PTZ) IP cameras, video phones, and thin client devices, delivering more flexibility and investment protection.
- **Network security:** The 1200 Series switches provide the security and network management features you need to maintain a high level of security for your business, keep unauthorized users off the network, and protect your business data. The switches include integrated network security to reduce the risk of a security breach, with IEEE 802.1X port security to control access to your network, Denial-of-Service (DoS) attack prevention to increase network uptime during an attack, and extensive Access Control Lists (ACLs) to protect sensitive portions of the network from unauthorized users and guard against network attacks.
- **Flexible and compact design:** The sleek and compact design provides additional deployment flexibility, including installation outside the wiring closet, such as in retail stores, open-plan offices, and classrooms, without disturbing the environment.
- **An energy-efficient solution:** The 1200 Series switches are designed to be energy efficient and eco-friendly without compromising performance. They help conserve energy by optimizing power use, which helps protect the environment and lowers your energy costs. Power-saving features include:
    - Support for the Energy Efficient Ethernet (IEEE 802.3az) standard, which reduces energy consumption by monitoring the amount of traffic on an active link and putting the link into a sleep state during quiet periods.
    - Automatic power shutoff on ports when a link is down.
    - Fanless design in most models, which reduces power consumption, increases reliability, and provides quieter operation.
- **Peace of mind and investment protection:** The 1200 Series switches offer the reliable performance, investment protection, and peace of mind you expect from a Cisco switch. Complimentary one-year access to our Small Business Support Center for ongoing support and a limited lifetime warranty with return-to-factory replacement help keep your business running smoothly.

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Product specifications

Table 1 describes the product specifications for the Cisco Catalyst 1200 Series Switches.

Table 1. Product specifications

Feature	Description		
Performance			
Switching capacity and forwarding rate **All switches are wire-speed and nonblocking**	**Model**	**Capacity in millions of packets per second (mpps) (64-byte packets)**	**Switching capacity in gigabits per second (Gbps)**
	C1200-8T-D	11.90	16
	C1200-8T-E-2G	14.88	20
	C1200-8P-E-2G	14.88	20
	C1200-8FP-2G	14.88	20
	C1200-16T-2G	26.78	36
	C1200-16P-2G	26.78	36
	C1200-24T-4G	41.67	56
	C1200-24P-4G	41.67	56
	C1200-24FP-4G	41.67	56
	C1200-48T-4G	77.38	104
	C1200-48P-4G	77.38	104
	C1200-24T-4X	95.23	128
	C1200-24P-4X	95.23	128
	C1200-24FP-4X	95.23	128
	C1200-48T-4X	130.94	176
	C1200-48P-4X	130.94	176
Layer 2 switching			
Spanning Tree Protocol (STP)	Standard 802.1d spanning tree support Fast convergence using 802.1w (Rapid Spanning Tree Protocol [RSTP]), enabled by default Multiple spanning tree instances using 802.1s (MSTP); 8 instances are supported Per-VLAN Spanning Tree Plus (PVST+); 126 instances are supported Rapid PVST+ (RPVST+); 126 instances are supported		

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Feature	Description
Port grouping/link aggregation	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP) • Up to 4 groups • Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad Link Aggregation Group (LAG)
VLAN	Support for up to 255 active VLANs simultaneously Port-based and 802.1Q tag-based VLANs Management VLAN Guest VLAN Auto Surveillance VLAN (ASV)
Voice VLAN	Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS. Voice Services Discovery Protocol (VSDP) delivers networkwide zero-touch deployment of voice endpoints and call control devices
Generic VLAN Registration Protocol (GVRP) and Generic Attribute Registration Protocol (GARP)	Enable automatically propagation and configuration of VLANs in a bridged domain
Internet Group Management Protocol (IGMP) versions 1, 2, and 3 snooping	Limits bandwidth-intensive multicast traffic to only the requesters; supports 255 multicast groups (source-specific multicasting is also supported)
IGMP querier	Used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
Head-of-Line (HOL) blocking	HOL blocking prevention
Loopback detection	Provides protection against loops by transmitting loop protocol packets out of ports on which loop protection has been enabled. It operates independently of STP
Layer 3 routing	
IPv4 routing	Wire-speed routing of IPv4 packets Up to 32 static routes and up to 16 IP interfaces
IPv6 routing	Wire-speed routing of IPv6 packets
Layer 3 interface	Configuration of Layer 3 interface on physical port, LAG, VLAN interface, or loopback interface
Classless Interdomain Routing (CIDR)	Support for CIDR
Dynamic Host Configuration Protocol (DHCP) relay at Layer 3	Relay of DHCP traffic across IP domains
User Datagram Protocol (UDP) relay	Relay of broadcast information across Layer 3 domains for application discovery or relaying of Bootstrap Protocol (BootP)/DHCP packets

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Feature	Description
Security	
Secure Sockets Layer (SSL)	Encrypts all HTTPS traffic, allowing secure access to the browser-based management GUI in the switch
SSH Protocol	SSH is a secure replacement for Telnet traffic. Secure Copy (SCP) also uses SSH. SSH v1 and v2 are supported.
IEEE 802.1X (authenticator role)	RADIUS authentication, guest VLAN, single/multiple host mode, and single/multiple sessions
STP loopback guard	Provides additional protection against Layer 2 forwarding loops (STP loops)
Secure Core Technology (SCT)	Ensures that the switch will receive and process management and protocol traffic no matter how much traffic is received
Secure Sensitive Data (SSD)	A mechanism to manage sensitive data (such as passwords, keys, and so on) securely on the switch, populating this data to other devices and a secure auto-configuration. Access to view the sensitive data as plain text or encrypted is provided according to the user-configured access level and the access method of the user
Trustworthy systems	Trustworthy systems provide a highly secure foundation for Cisco products Run-time defenses (Executable Space Protection [X-Space], Address Space Layout Randomization [ASLR], Built-In Object Size Checking [BOSC])
Port security	Ability to lock source MAC addresses to ports and limit the number of learned MAC addresses
RADIUS	Supports RADIUS authentication for management access. Switch functions as a client
Storm control	Broadcast, multicast, and unknown unicast
DoS prevention	DoS attack prevention
Multiple user privilege levels in CLI	Level 1, 7, and 15 privilege levels
ACLs	Support for up to 512 rules Drop or rate limit based on source and destination MAC, VLAN ID, IPv4 or IPv6 address, IPv6 flow label, protocol, port, Differentiated Services Code Point (DSCP)/IP precedence, TCP/UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag; ACL can be applied on both ingress and egress sides Time-based ACLs supported
Quality of service	
Priority levels	8 hardware queues
Scheduling	Strict priority and Weighted Round-Robin (WRR) queue assignment based on DSCP and Class of Service (802.1p/CoS)
Class of service	Port based, 802.1p VLAN priority based, IPv4/v6 IP precedence/Type of Service (ToS)/DSCP based, Differentiated Services (DiffServ), classification and re-marking ACLs, trusted QoS
Rate limiting	Ingress policer, egress shaping and rate control per VLAN, per port, and flow based

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Feature	Description
Congestion avoidance	A TCP congestion avoidance algorithm is required to reduce and prevent global TCP loss synchronization
Standards	
Standards	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3ad Link Aggregation Control Protocol, IEEE 802.3z Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.3 ad LACP, IEEE 802.1D (STP), IEEE 802.1Q/p VLAN, IEEE 802.1w RSTP, IEEE 802.1s Multiple STP, IEEE 802.1X Port Access Authentication, IEEE 802.3af, IEEE 802.3at, RFC 768, RFC 783, RFC 791, RFC 792, RFC 793, RFC 813, RFC 879, RFC 896, RFC 826, RFC 854, RFC 855, RFC 856, RFC 858, RFC 894, RFC 919, RFC 920, RFC 922, RFC 950, RFC 951, RFC 1042, RFC 1071, RFC 1123, RFC 1141, RFC 1155, RFC 1157, RFC 1213, RFC 1215, RFC 1286, RFC 1350, RFC 1442, RFC 1451, RFC 1493, RFC 1533, RFC 1541, RFC 1542, RFC 1573, RFC 1624, RFC 1643, RFC 1700, RFC 1757, RFC 1867, RFC 1907, RFC 2011, RFC 2012, RFC 2013, RFC 2030, RFC 2131, RFC 2132, RFC 2233, RFC 2576, RFC 2616, RFC 2618, RFC 2665, RFC 2666, RFC 2674, RFC 2737, RFC 2819, RFC 2863, RFC 3164, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 3416, RFC 4330
IPv6	
IPv6	IPv6 host mode IPv6 over Ethernet Dual IPv6/IPv4 stack IPv6 Neighbor Discovery (ND) IPv6 stateless address auto-configuration Path Maximum Transmission Unit (MTU) discovery Duplicate Address Detection (DAD) ICMP version 6 IPv6 over IPv4 network with Intrasite Automatic Tunnel Addressing Protocol (ISATAP) support
IPv6 QoS	Prioritizes IPv6 packets in hardware
IPv6 ACL	Drop or rate-limit IPv6 packets in hardware
Multicast Listener Discovery (MLD v1/2) snooping	Delivers IPv6 multicast packets only to the required receivers
IPv6 applications	Web/SSL, Telnet server/SSH, Ping, Traceroute, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), Simple Network Management Protocol (SNMP), RADIUS, Syslog, DNS client, DHCP client, DHCP auto-configuration
IPv6 RFCs supported	RFC 4443 (which obsoletes RFC 2463): ICMPv6 RFC 4291 (which obsoletes RFC 3513): IPv6 address architecture RFC 4291: IPv6 addressing architecture RFC 2460: IPv6 specification RFC 4861 (which obsoletes RFC 2461): neighbor discovery for IPv6 RFC 4862 (which obsoletes RFC 2462): IPv6 stateless address auto-configuration

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Feature	Description	
	RFC 1981: path MTU discovery	
	RFC 4007: IPv6 scoped address architecture	
	RFC 3484: default address selection mechanism	
	RFC 5214 (which obsoletes RFC 4214): ISATAP tunneling	
	RFC 4293: MIB IPv6: textual conventions and general group	
	RFC 3595: textual conventions for IPv6 flow label	
Management		
Cisco Business Dashboard	Support for embedded probe for Cisco Business Dashboard running on the switch. Eliminates the need to set up a separate hardware or virtual machine for the Cisco Business Dashboard probe onsite	
Cisco Business mobile app	Mobile app for Cisco Business switch and wireless products. Helps to set up a local network in minutes and provide easy management at your fingertips.	
Cisco Network Plug and Play (PnP) agent	The Cisco Network PnP solution provides a simple, secure, unified, and integrated offering to ease new branch or campus device rollouts or for provisioning updates to an existing network. The solution provides a unified approach to provision Cisco routers, switches, and wireless devices with a near-zero-touch deployment experience. Supports Cisco PnP Connect	
Web user interface	Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS). Supports configuration, wizards, system dashboard, system maintenance, and monitoring Basic and advanced mode for maximum operational efficiency	
SNMP	SNMP versions 1, 2c, and 3 with support for traps, and SNMP v3 User-Based Security Model (USM)	
Standard MIBs	lldp-MIB	rfc2668-MIB
	lldpextdot1-MIB	rfc2737-MIB
	lldpextdot3-MIB	rfc2925-MIB
	lldpextmed-MIB	rfc3621-MIB
	rfc2674-MIB	rfc4668-MIB
	rfc2575-MIB	rfc4670-MIB
	rfc2573-MIB	trunk-MIB
	rfc2233-MIB	tunnel-MIB
	rfc2013-MIB	udp-MIB
	rfc2012-MIB	draft-ietf-bridge-8021x-MIB
	rfc2011-MIB	draft-ietf-bridge-rstpmib-04-MIB
	RFC-1212	draft-ietf-hubmib-etherif-mib-v3-00-MIB
	RFC-1215	draft-ietf-syslog-device-MIB
	SNMPv2-CONF	ianaaddrfamnumbers-MIB
	SNMPv2-TC	ianaifty-MIB
	p-bridge-MIB	ianaprot-MIB

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Feature	Description	
	q-bridge-MIB	inet-address-MIB
	rfc1389-MIB	ip-forward-MIB
	rfc1493-MIB	ip-MIB
	rfc1611-MIB	RFC1155-SMI
	rfc1612-MIB	RFC1213-MIB
	rfc1850-MIB	SNMPv2-MIB
	rfc1907-MIB	SNMPv2-SMI
	rfc2571-MIB	SNMPv2-TM
	rfc2572-MIB	RMON-MIB
	rfc2574-MIB	rfc1724-MIB
	rfc2576-MIB	dcb-raj-DCBX-MIB-1108-MIB
	rfc2613-MIB	rfc1213-MIB
	rfc2665-MIB	rfc1757-MIB
Private MIBs	CISCOSB-lldp-MIB	CISCOSB-ip-MIB
	CISCOSB-brgmulticast-MIB	CISCOSB-iprouter-MIB
	CISCOSB-bridgemibobjects-MIB	CISCOSB-ipv6-MIB
	CISCOSB-bonjour-MIB	CISCOSB-mnginf-MIB
	CISCOSB-dhcpcl-MIB	CISCOSB-lcli-MIB
	CISCOSB-MIB	CISCOSB-localization-MIB
	CISCOSB-wrandomtaildrop-MIB	CISCOSB-mcmngr-MIB
	CISCOSB-traceroute-MIB	CISCOSB-mng-MIB
	CISCOSB-telnet-MIB	CISCOSB-physdescription-MIB
	CISCOSB-stormctrl-MIB	CISCOSB-PoE-MIB
	CISCOSBssh-MIB	CISCOSB-protectedport-MIB
	CISCOSB-socket-MIB	CISCOSB-rmon-MIB
	CISCOSB-sntp-MIB	CISCOSB-rs232-MIB
	CISCOSB-smon-MIB	CISCOSB-SecuritySuite-MIB
	CISCOSB-phy-MIB	CISCOSB-snmp-MIB
	CISCOSB-multisessionterminal-MIB	CISCOSB-specialbpdu-MIB
	CISCOSB-mri-MIB	CISCOSB-banner-MIB
	CISCOSB-jumboframes-MIB	CISCOSB-syslog-MIB
	CISCOSB-gvrp-MIB	CISCOSB-TcpSession-MIB
	CISCOSB-endofmib-MIB	CISCOSB-traps-MIB
	CISCOSB-dot1x-MIB	CISCOSB-trunk-MIB
	CISCOSB-deviceparams-MIB	CISCOSB-tuning-MIB
	CISCOSB-cli-MIB	CISCOSB-tunnel-MIB
	CISCOSB-cdb-MIB	CISCOSB-udp-MIB

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Feature	Description	
	CISCOSB-brgmacswitch-MIB	CISCOSB-vlan-MIB
	CISCOSB-3sw2swtables-MIB	CISCOSB-ipstdacl-MIB
	CISCOSB-smartPorts-MIB	CISCOSB-eee-MIB
	CISCOSB-tbi-MIB	CISCOSB-ssl-MIB
	CISCOSB-macbaseprio-MIB	CISCOSB-qosclimib-MIB
	CISCOSB-env_mib-MIB	CISCOSB-digitalkeymanage-MIB
	CISCOSB-policy-MIB	CISCOSB-tbp-MIB
	CISCOSB-sensor-MIB	CISCOSMB-MIB
	CISCOSB-aaa-MIB	CISCOSB-secsd-MIB
	CISCOSB-application-MIB	CISCOSB-draft-ietf-entmib-sensor-MIB
	CISCOSB-bridgesecurity-MIB	CISCOSB-draft-ietf-syslog-device-MIB
	CISCOSB-copy-MIB	CISCOSB-rfc2925-MIB
	CISCOSB-CpuCounters-MIB	CISCO-SMI-MIB
	CISCOSB-Custom1BonjourService-MIB	CISCOSB-DebugCapabilities-MIB
	CISCOSB-dhcp-MIB	CISCOSB-CDP-MIB
	CISCOSB-dlf-MIB	CISCOSB-vlanVoice-MIB
	CISCOSB-dnscl-MIB	CISCOSB-EVENTS-MIB
	CISCOSB-embweb-MIB	CISCOSB-sysmng-MIB
	CISCOSB-fft-MIB	CISCOSB-sct-MIB
	CISCOSB-file-MIB	CISCO-TC-MIB
	CISCOSB-greeneth-MIB	CISCO-VTP-MIB
	CISCOSB-interfaces-MIB	CISCO-CDP-MIB
	CISCOSB-interfaces_recovery-MIB	
Remote Monitoring (RMON)	Embedded RMON software agent supports 4 RMON groups (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis	
IPv4 and IPv6 dual stack	Coexistence of both protocol stacks to ease migration	
Firmware upgrade	Web browser upgrade (HTTP/HTTPS) and TFTP and upgrade over SCP running over SSH Dual images for resilient firmware upgrades	
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to 4 source ports can be mirrored to one destination port	
VLAN mirroring	Traffic from a VLAN can be mirrored to a port for analysis with a network analyzer or RMON probe. Up to 4 source VLANs can be mirrored to one destination port	
DHCP (options 12, 59, 60, 66, 67, 125, 129, and 150)	DHCP options facilitate tighter control from a central point (DHCP server) to obtain IP address, auto-configuration (with configuration and image file download), DHCP relay, and hostname	
Secure Copy (SCP)	Securely transfers files to and from the switch	

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Feature	Description
Auto-configuration with SCP file download	Enables mass deployment with protection of sensitive data
Text-editable configurations	Configuration files can be edited with a text editor and downloaded to another switch, facilitating easier mass deployment
Smartports	Simplified configuration of QoS and security capabilities
Auto Smartports	Automatically applies the intelligence delivered through the Smartports roles to the port based on the devices discovered over Cisco Discovery Protocol or LLDP-MED. This facilitates zero-touch deployments
Text view CLI	Scriptable CLI. A full CLI as well as a menu-based CLI is supported. User privilege levels 1, 7, and 15 are supported for the CLI
Localization	Localization of GUI and documentation into multiple languages
Login banner	Configurable multiple banners for web as well as CLI
Other management	Traceroute, single IP management, HTTP/HTTPS, RADIUS, port mirroring, TFTP upgrade, DHCP client, SNTP, cable diagnostics, Ping, syslog, Telnet client (SSH secure support), automatic time settings from management station
Green (power efficiency)	
Energy detect	Automatically turns power off on an RJ-45 port when the detecting link down. Active mode is resumed without loss of any packets when the switch detects the link is up
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables
EEE compliant (802.3az)	Supports IEEE 802.3az on all copper Gigabit Ethernet ports
Disable port LEDs	LEDs can be manually turned off to save energy
Time-based port operation	Link up or down based on user-defined schedule (when the port is administratively up)
Time-based PoE	PoE power can be on or off based on user-defined schedule to save energy
Perpetual PoE	Provides PoE power to connected powered devices while the device is rebooting
General	
Jumbo frames	Frame sizes up to 9000 bytes. The default MTU is 2000 bytes
MAC table	8000 addresses
Chip guard	Detects tampering attempts and responds during boot-up
Boot integrity	Boot integrity visibility allows Cisco's platform identity and software integrity information to be visible and actionable

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<table>
<tr><th>Feature</th><th>Description</th></tr>
<tr><td colspan="2">Discovery</td></tr>
<tr><td>Bonjour</td><td>The switch advertises itself using the Bonjour protocol</td></tr>
<tr><td>Link Layer Discovery Protocol (LLDP) (802.1ab) with LLDP-Media Endpoint Discovery (MED) extensions</td><td>LLDP allows the switch to advertise its identification, configuration, and capabilities to neighboring devices that store the data in a MIB. LLDP-MED is an enhancement to LLDP that adds the extensions needed for IP phones</td></tr>
<tr><td>Cisco Discovery Protocol</td><td>The switch advertises itself using the Cisco Discovery Protocol. It also learns the connected device and its characteristics using Cisco Discovery Protocol</td></tr>
<tr><td colspan="2">Power over Ethernet (PoE)</td></tr>
<tr><td>802.3at PoE+ and 802.3af PoE delivered over any of the RJ-45 ports within the listed power budgets</td><td>The following switches support 802.3at PoE+, 802.3af, and Cisco prestandard (legacy) PoE. Maximum power of 30.0W to any Gigabit Ethernet port until the PoE budget for the switch is reached. The total power available for PoE per switch is as follows:
<table>
<tr><th>Model</th><th>Power dedicated to PoE</th><th>Number of ports that support PoE</th></tr>
<tr><td>C1200-8P-E-2G</td><td>67W</td><td>8</td></tr>
<tr><td>C1200-8FP-2G</td><td>120W</td><td>8</td></tr>
<tr><td>C1200-16P-2G</td><td>120W</td><td>16</td></tr>
<tr><td>C1200-24P-4G</td><td>195W</td><td>24</td></tr>
<tr><td>C1200-24FP-4G</td><td>375W</td><td>24</td></tr>
<tr><td>C1200-48P-4G</td><td>375W</td><td>48</td></tr>
<tr><td>C1200-24P-4X</td><td>195W</td><td>24</td></tr>
<tr><td>C1200-24FP-4X</td><td>375W</td><td>24</td></tr>
<tr><td>C1200-48P-4X</td><td>375W</td><td>48</td></tr>
</table></td></tr>
<tr><td>PoE Powered Device (PD)</td><td>Select compact switch models can work as PoE PDs and be powered by upstream PoE switches

When AC power is connected and functioning correctly, it is preferred over PoE power. The PoE power can function as a backup to the AC power source or be used as the sole power source for the switch
<table>
<tr><th>Model</th><th>Power option</th></tr>
<tr><td>C1200-8T-D</td><td>1x PoE input (802.3af) on port 1 or AC power</td></tr>
</table></td></tr>
</table>

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Feature	Description				
Hardware					
Power consumption (worst case)	**Model**	**System power consumption**	**Power consumption (with PoE)**	**Heat dissipation (BTU/hr)**	**Idle Power**
	C1200-8T-D	110V=7.03W 220V=7.09W	N/A	24.20	110V=4.14W 220V=4.26W
	C1200-8T-E-2G	110V=10.63W 220V=10.65W	N/A	36.33	110V=4.58W 220V=4.72W
	C1200-8P-E-2G	110V=13.04W 220V=13.33W	110V=87.89W 220V=84.86W	299.91	110V=7.76W 220V=7.46W
	C1200-8FP-2G	110V=14.59W 220V=14.33W	110V=145.44W 220V=141.80W	496.26	110V=9.75W 220V=9.59W
	C1200-16T-2G	110V=10.8W 220V=11.0W	N/A	37.5	110V=4.3W 220V=4.4W
	C1200-16P-2G	110V=17.4W 220V=17.2W	110V=143.9W 220V=141.4W	490.7	110V=10.4W 220V=10.2W
	C1200-24T-4G	110V=13.9W 220V=14.2W	N/A	48.4	110V=4.7W 220V=4.9W
	C1200-24P-4G	110V=25.9W 220V=27.5W	110V=235.2W 220V=230.8W	802	110V=13.5W 220V=14.8W
	C1200-24FP-4G	110V=28.9W 220V=29.8W	110V=443.5W 220V=429.9W	1512.3	110V=16.5W 220V=17.4W
	C1200-48T-4G	110V=38.80W 220V=38.07W	N/A	132.39	110V=13.36W 220V=13.09W
	C1200-48P-4G	110V=44.81W 220V=43.93W	110V=450.65W 220V=437.14W	1537.68	110V=21.03W 220V=20.68W
	C1200-24T-4X	110V=23.1W 220V=23.0W	N/A	78.8	110V=5.4W 220V=5.7W
	C1200-24P-4X	110V=30.2W 220V=31.6W	110V=240.4W 220V=236.3W	819.7	110V=13.9W 220V=15.2W
	C1200-24FP-4X	110V=41.1W 220V=40.9W	110V=452.9W 220V=450.4W	1544.4	110V=22W 220V=22.7W

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Feature	Description				
	C1200-48T-4X	110V=40.01W 220V=39.77W	N/A	136.50	110V=13.12W 220V=12.93W
	C1200-48P-4X	110V=47.44W 220V=47.03W	110V=462.84W 220V=449.48W	1579.28	110V=20.51W 220V=20.27W

Ports	Model	Total system ports	RJ-45 ports	Combo ports (RJ-45 + Small Form-Factor Pluggable [SFP])
	C1200-8T-D	8x Gigabit Ethernet	8x Gigabit Ethernet	-
	C1200-8T-E-2G	10x Gigabit Ethernet	8x Gigabit Ethernet	2x Gigabit Ethernet combo
	C1200-8P-E-2G	10x Gigabit Ethernet	8x Gigabit Ethernet	2x Gigabit Ethernet combo
	C1200-8FP-2G	10x Gigabit Ethernet	8x Gigabit Ethernet	2x Gigabit Ethernet combo
	C1200-16T-2G	18x Gigabit Ethernet	16x Gigabit Ethernet	2x SFP
	C1200-16P-2G	18x Gigabit Ethernet	16x Gigabit Ethernet	2x SFP
	C1200-24T-4G	28x Gigabit Ethernet	24x Gigabit Ethernet	4x SFP
	C1200-24P-4G	28x Gigabit Ethernet	24x Gigabit Ethernet	4x SFP
	C1200-24FP-4G	28x Gigabit Ethernet	24x Gigabit Ethernet	4x SFP
	C1200-48T-4G	52x Gigabit Ethernet	48x Gigabit Ethernet	4x SFP
	C1200-48P-4G	52x Gigabit Ethernet	48x Gigabit Ethernet	4x SFP
	C1200-24T-4X	24x Gigabit Ethernet + 4x 10 Gigabit Ethernet	24x Gigabit Ethernet	4x SFP+
	C1200-24P-4X	24x Gigabit Ethernet + 4x 10 Gigabit Ethernet	24x Gigabit Ethernet	4x SFP+
	C1200-24FP-4X	24x Gigabit Ethernet + 4x 10 Gigabit Ethernet	24x Gigabit Ethernet	4x SFP+
	C1200-48T-4X	48x Gigabit Ethernet + 4x 10 Gigabit Ethernet	48x Gigabit Ethernet	4x SFP+
	C1200-48P-4X	48x Gigabit Ethernet + 4x 10 Gigabit Ethernet	48x Gigabit Ethernet	4x SFP+

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Feature	Description
Console port	Cisco Standard RJ-45 console and USB Type C port* *Not available on C1200-8T-D
USB port	USB Type C port on the front panel of the switch for easy file and image management as well as console port
Buttons	Reset button
Cabling type	Unshielded Twisted Pair (UTP) Category 5e or better for 1000BASE-T
LEDs	System, Link/Act, PoE, Speed
Flash	512 MB
CPU	Dual-core ARM at 1.4 GHz
DRAM	1 GB DDR4
Packet buffer	All numbers are aggregate across all ports because the buffers are dynamically shared.

Model	Packet buffer
C1200-8T-D	1.5 MB
C1200-8T-E-2G	1.5 MB
C1200-8P-E-2G	1.5 MB
C1200-8FP-2G	1.5 MB
C1200-16T-2G	1.5 MB
C1200-16P-2G	1.5 MB
C1200-24T-4G	1.5 MB
C1200-24P-4G	1.5 MB
C1200-24FP-4G	1.5 MB
C1200-48T-4G	3 MB
C1200-48P-4G	3 MB
C1200-24T-4X	1.5 MB
C1200-24P-4X	1.5 MB
C1200-24FP-4X	1.5 MB
C1200-48T-4X	3 MB
C1200-48P-4X	3 MB

SKU	Media	Speed	Maximum distance

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Feature	Description			
Supported SFP/SFP+ modules	MGBSX1	Multimode fiber	1000 Mbps	500 m
	MGBLH1	Single-mode fiber	1000 Mbps	40 km
	MGBLX1	Single-mode fiber	1000 Mbps	10 km
	MGBT1	UTP Cat 5e	1000 Mbps	100 m
	GLC-SX-MMD	Multimode fiber	1000 Mbps	550 m
	GLC-LH-SMD	Single-mode fiber	1000 Mbps	10 km
	GLC-BX-U	Single-mode fiber	1000 Mbps	10 km
	GLC-BX-D	Single-mode fiber	1000 Mbps	10 km
	GLC-TE	UTP Cat 5e	1000 Mbps	100 m
	SFP-H10GB-CU1M	Copper coax	10 Gigabit Ethernet	1 m
	SFP-H10GB-CU3M	Copper coax	10 Gigabit Ethernet	3 m
	SFP-H10GB-CU5M	Copper coax	10 Gigabit Ethernet	5 m
	SFP-10G-SR	Multimode fiber	10 Gigabit Ethernet	26 m - 400 m
	SFP-10G-LR	Single-mode fiber	10 Gigabit Ethernet	10 km
	SFP-10G-SR-S	Multimode fiber	10 Gigabit Ethernet	26 m to 400 m
	SFP-10G-LR-S	Single-mode fiber	10 Gigabit Ethernet	10 km
Environmental				
Unit dimensions (W x D x H)	**Model**		**Dimensions**	
	C1200-8T-D		160 x 128 x 30 mm (6.3 x 5.04 x 1.18 in)	
	C1200-8T-E-2G		268 x 185 x 44 mm (10.56 x 7.28 x 1.73 in)	
	C1200-8P-E-2G		268 x 185 x 44 mm (10.56 x 7.28 x 1.73 in)	
	C1200-8FP-2G		268 x 185 x 44 mm (10.56 x 7.28 x 1.73 in)	
	C1200-16T-2G		268 x 272 x 44 mm (10.56 x 10.69 x 1.73 in)	
	C1200-16P-2G		268 x 297 x 44 mm (10.56 x 11.69 x 1.73 in)	
	C1200-24T-4G		445 x 240 x 44 mm (17.5 x 9.45 x 1.73 in)	
	C1200-24P-4G		445 x 299 x 44 mm (17.5 x 11.77 x 1.73 in)	
	C1200-24FP-4G		445 x 345 x 44 mm (17.5 x 13.59 x 1.73 in)	

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Feature	Description	
	C1200-48T-4G	445 x 288 x 44 mm (17.5 x 11.33 x 1.73 in)
	C1200-48P-4G	445 x 350 x 44 mm (17.5 x 13.78 x 1.73 in)
	C1200-24T-4X	445 x 240 x 44 mm (17.5 x 9.45 x 1.73 in)
	C1200-24P-4X	445 x 299 x 44 mm (17.5 x 11.77 x 1.73 in)
	C1200-24FP-4X	445 x 345 x 44 mm (17.5 x 13.59 x 1.73 in)
	C1200-48T-4X	445 x 288 x 44 mm (17.5 x 11.33 x 1.73 in)
	C1200-48P-4X	445 x 350 x 44 mm (17.5 x 13.78 x 1.73 in)
Unit weight	**Model**	**Unit weight**
	C1200-8T-D	0.54 kg (1.19 lb)
	C1200-8T-E-2G	1.39 kg (3.06 lb)
	C1200-8P-E-2G	1.53 kg (3.37 lb)
	C1200-8FP-2G	1.53 kg (3.37 lb)
	C1200-16T-2G	1.78 kg (3.92 lb)
	C1200-16P-2G	2.38 kg (5.25 lb)
	C1200-24T-4G	2.63 kg (5.80 lb)
	C1200-24P-4G	3.53 kg (7.78 lb)
	C1200-24FP-4G	4.6 kg (10.14 lb)
	C1200-48T-4G	3.95 kg (8.71 lb)
	C1200-48P-4G	5.43 kg (11.97 lb)
	C1200-24T-4X	2.78 kg (6.13 lb)
	C1200-24P-4X	3.68 kg (8.11 lb)
	C1200-24FP-4X	4.6 kg (10.14 lb)
	C1200-48T-4X	3.95 kg (8.71 lb)
	C1200-48P-4X	5.43 kg (11.97 lb)
Power	100 to 240V 50 to 60 Hz, internal, universal: C1200-8FP-2G, C1200-16T-2G, C1200-16P-2G, C1200-24T-4G, C1200-24P-4G, C1200-24FP-4G, C1200-48T-4G, C1200-48P-4G, C1200-24T-4X, C1200-24P-4X, C1200-24FP-4X, C1200-48T-4X, C1200-48P-4X 100 to 240V 50 to 60 Hz, external: C1200-8T-D, C1200-8T-E-2G, C1200-8P-E-2G	
Certifications	UL (UL 62368), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A	

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Feature	Description			
Operating temperature	32° to 122°F (0° to 50°C) for C1200-8T-D 23° to 122°F (-5° to 50°C) for other models			
Storage temperature	-13° to 158°F (-25° to 70°C)			
Operating humidity	10% to 90%, relative, noncondensing			
Storage humidity	10% to 90%, relative, noncondensing			
Acoustic noise and mean time between failures (MTBF)	**Model**	**Fan (number)**	**Acoustic noise**	**MTBF at 25°C (hours)**
	C1200-8T-D	Fanless	–	3,277,956
	C1200-8T-E-2G	Fanless	–	2,171,669
	C1200-8P-E-2G	Fanless	–	1,706,649
	C1200-8FP-2G	Fanless	–	1,706,649
	C1200-16T-2G	Fanless	–	2,165,105
	C1200-16P-2G	Fanless	–	706,983
	C1200-24T-4G	Fanless	–	2,026,793
	C1200-24P-4G	Fanless	–	698,220
	C1200-24FP-4G	1	25°C: 34.8 dBA	698,220
	C1200-48T-4G	1	25°C: 29.7 dBA	1,452,667
	C1200-48P-4G	1	25°C: 37.3 dBA	856,329
	C1200-24T-4X	Fanless	–	2,026,793
	C1200-24P-4X	Fanless	–	698,220
	C1200-24FP-4X	1	25°C: 34.8 dBA	698,220
	C1200-48T-4X	1	25°C: 29.7 dBA	1,452,667
	C1200-48P-4X	1	25°C: 37.3 dBA	856,329
Warranty	Limited lifetime			
Package contents				
• Cisco Catalyst 1200 Series Switch • Power cord (power adapter for select 8-port and 16-port SKUs) • Mounting kit • Pointer card				
Minimum requirements				

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Feature	Description
• Web browser: Chrome, Firefox, Edge, Safari • Category 5e Ethernet network cable • TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed	

Ordering information

Table 2 provides ordering information for the Cisco Catalyst 1200 Series Switches.

Table 2. Ordering information

Model	Product ID	Description
Gigabit Ethernet		
C1200-8T-D	C1200-8T-D	• 8x 10/100/1000 ports • Desktop
C1200-8T-E-2G	C1200-8T-E-2G	• 8x 10/100/1000 ports • 2x Gigabit copper/SFP combo ports • Rack-mountable
C1200-8P-E-2G	C1200-8P-E-2G	• 8x 10/100/1000 PoE+ ports with 67W power budget • 2x Gigabit copper/SFP combo ports • Rack-mountable
C1200-8FP-2G	C1200-8FP-2G	• 8x 10/100/1000 PoE+ ports with 120W power budget • 2x Gigabit copper/SFP combo ports • Rack-mountable
C1200-16T-2G	C1200-16T-2G	• 16x 10/100/1000 ports • 2x Gigabit SFP • Rack-mountable
C1200-16P-2G	C1200-16P-2G	• 16x 10/100/1000 PoE+ ports with 120W power budget • 2x Gigabit SFP • Rack-mountable
C1200-24T-4G	C1200-24T-4G	• 24x 10/100/1000 ports • 4x Gigabit SFP • Rack-mountable
C1200-24P-4G	C1200-24P-4G	• 24x 10/100/1000 PoE+ ports with 195W power budget • 4x Gigabit SFP • Rack-mountable
C1200-24FP-4G	C1200-24FP-4G	• 24x 10/100/1000 PoE+ ports with 375W power budget • 4x Gigabit SFP • Rack-mountable
C1200-48T-4G	C1200-48T-4G	• 48x 10/100/1000 ports

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Model	Product ID	Description
		• 4x Gigabit SFP • Rack-mountable
C1200-48P-4G	C1200-48P-4G	• 48x 10/100/1000 PoE+ ports with 375W power budget • 4x Gigabit SFP • Rack-mountable
Gigabit Ethernet with 10 Gigabit Ethernet uplinks		
C1200-24T-4X	C1200-24T-4X	• 24x 10/100/1000 ports • 4x 10 Gigabit SFP+ • Rack-mountable
C1200-24P-4X	C1200-24P-4X	• 24x 10/100/1000 PoE+ ports with 195W power budget • 4x 10 Gigabit SFP+ • Rack-mountable
C1200-24FP-4X	C1200-24FP-4X	• 24x 10/100/1000 PoE+ ports with 375W power budget • 4x 10 Gigabit SFP+ • Rack-mountable
C1200-48T-4X	C1200-48T-4X	• 48x 10/100/1000 ports • 4x 10 Gigabit SFP+ • Rack-mountable
C1200-48P-4X	C1200-48P-4X	• 48x 10/100/1000 PoE+ ports with 375W power budget • 4x 10 Gigabit SFP+ • Rack-mountable

Accessories

Table 3 describes the available accessories for the Cisco Catalyst 1200 Series Switches.

Table 3. Accessories

Part number	Description	Compatibility
CAB-CONSOLE-RJ45	Console cable 6 feet with RJ-45	All models
CAB-CONSOLE-USB-C	Console cable USB-C type	All models
CAB-CONSOLE-USB-C=	Console cable USB-C type	All models
PWR-CLP	Power cable restraining clip	All models

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Part number	Description	Compatibility
Cisco rack-mounting kit		
RCKMNT-1RU-1K=	Rack-mount kit for 1 RU for C1000, C1200, C1300	All 24/48 port models*
RCKMNT-CMPCT-1K=	19-in. rack-mount bracket for C1000, C1200, C1300	All 8/16/16P port models

*Only 24- and 48-port models include the 19-in. mounting brackets with the switch

Cisco power adapters	
PWRADPT-WM-18-xx	18W power adapter
PWRADPT-WM-18-NA=	18W power adapter

XX=NA, TW, JP, EU, UK, AU, AR, BR, CN, IN, KR (country specific plug)

The 10 Gigabit Ethernet SFP+ port supports 10 Gigabit and 1 Gigabit speeds.

Each combo port has one 10/100/1000 copper Ethernet port and one SFP Gigabit Ethernet slot, with one port active at a time.

Cisco Catalyst 1200 Series products are available only through distributors and not available to order directly from Cisco. Partners should order these products from their preferred distributors. End users should order from their preferred partners.

A powerful foundation for the basic business network

As you strive to make your business more competitive and efficient, every dollar counts. The Cisco Catalyst 1200 Series Switches give you just the features, performance, and reliability you need, without making you pay for advanced features you don't. With the 1200 Series switches, you can rest assured that your business applications and communications tools are resting on a strong technology foundation, so you can focus on achieving your business goals.

Product sustainability

Information about Cisco's Environmental, Social, and Governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability reporting.

Table 4. Cisco environmental sustainability information

Sustainability topic		Reference
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries, and packaging	WEEE Compliance
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Sustainability inquiries	Contact: csr_inquiries@cisco.com
Material	Product packaging weight and materials	Contact: environment@cisco.com

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For more information

To find out more about the Cisco Catalyst 1200 Series Switches,
Visit https://www.cisco.com/c/en/us/products/switches/catalyst-1200-series-switches/index.html.

Document history

New or revised topic	Described in	Date
Removed reference to “smart switch”	Various locations	March 20, 2025
Added Idle Power information and updated Power Consumption values	Power consumption (Table 1)	September 30, 2023

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Printed in USA C78-3659553-03 06/26

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