Cisco Catalyst Express 500 Series Switches

General

Q. What are the Cisco Catalyst Express 500 Series Switches?

A. The Cisco® Catalyst® Express 500 Series Switches deliver networking tailored for businesses with fewer than 250 employees. Powered by Cisco technology and managed through a GUI, they are nonblocking, wire-speed, Layer 2-managed Fast Ethernet and Gigabit Ethernet switches. The user-friendly GUI makes setting up, running, and troubleshooting networks easy. Built-in Cisco Smartports with preset Cisco recommended network configurations, quality of service (QoS), and security settings allow for transparent integration of data, video, IP communications, and wireless LAN applications.

Table 1 gives descriptions of the switches.

Table 1. Cisco Catalyst Express 500 Series Descriptions

Product Name and Number	Description
Cisco Catalyst Express 500-24TT (WS-CE500-24TT)	Twenty-four 10/100 ports for desktop connectivity Two 10/100/1 000BASE-T ports for uplink or server connectivity
Cisco Catalyst Express 500-24LC (WS-CE500-24LC)	Twenty 10/100 ports for desktop connectivity Four 10/100 Power over Ethernet (PoE) ports for desktop, wireless access point, IP telephony, or closed circuit TV camera connectivity Two 10/100/1 000BASE-T or Small Form-Factor Pluggable (SFP) ports for uplink or server connectivity
Cisco Catalyst Express 500-24PC (WS-CE500-24PC)	Twenty-four 10/100 PoE ports for desktop, wireless, IP telephony, or closed-circuit TV camera connectivity Two 10/100/1 000BASE-T or SFP ports for uplink or server connectivity
Cisco Catalyst Express 500G-12TC (WS-CE500G-12TC)	Eight 10/100/1 000BASE-T and four 10/100/1 000BASE-T or SFP ports for switch aggregation or server connectivity
Cisco Catalyst Express 500 spare Rack Mount Kit (RCKMNT-CATEXP=)	Cisco Catalyst Express 500 spare Rack Mount Kit

Product Positioning

Q. How are the Cisco Catalyst Express 500 Series Switches positioned relative to the Cisco Catalyst 2960 Series Switches?

A. The Cisco Catalyst 2960 Series Switches are entry-level enterprise switches, whereas Cisco Catalyst Express 500 Series Switches are targeted at businesses with 20 to 250 employees. Enterprise branch offices should be deploying Cisco Catalyst 3000 and 2960 Series Switches because of the need to actively manage, upgrade, and configure a large number of devices.

Technical Details

Management

Q. **How do I manage the Cisco Catalyst Express 500 Series Switches?**

A. The Cisco Catalyst Express 500 Series Switches can be managed either through the embedded Device Manager or with Cisco Network Assistant, downloadable from the Cisco Website at no charge: http://www.cisco.com/go/cna.

Q. **Is there a command-line interface (CLI) on the Cisco Catalyst Express 500 Series Switches?**

A. No, these switches cannot be managed through a CLI.

Q. **Are there plans to add a CLI or Telnet to Cisco Catalyst Express 500 Series Switches?**

A. No, there are no plans to add a CLI or Telnet to these switches.

Q. **Can Cisco Catalyst Express 500 Series Switches be remotely configured?**

A. Yes, Cisco Catalyst Express 500 Series Switches can be remotely configured using the embedded Device Manager or with Cisco Network Assistant.

Q. **Can Cisco Catalyst Express 500 Series Switches be remotely monitored?**

A. Yes, Cisco Catalyst Express 500 Series Switches can be remotely monitored using the embedded Device Manager, the Cisco Network Assistant, or Simple Network Management Protocol (SNMP)-capable applications using read-only MIBs.

Q. **Do I have to accept the suggested Smartports role?**

A. No, you can choose not to accept the suggested Smartports role.

Interoperability

Q. **Will Cisco Catalyst Express 500 Series Switches interoperate with other Cisco switches?**

A. Yes, these switches interoperate with other Cisco switches.

Q. **Will Cisco Catalyst Express 500 Series Switches interoperate with other vendors' switches?**

A. Yes, these switches interoperate with other vendors' switches. You can apply Cisco Smartports "switch" port role to the port, but it will not autosuggest a Smartports port role or detect configuration errors.

Power

Q. **Is there redundant-power-supply support on the Cisco Catalyst Express 500 Series Switches**

A. The Cisco Redundant Power System (RPS) 675 supports the Cisco Catalyst Express 500-24PC only. It does not support the Cisco Catalyst Express 500-24TT, 500-24LC, or 500G-12TC.

Q. **Do Cisco Catalyst Express 500 Series Switches support the IEEE 802.3af inline power standard and Cisco Prestandard Inline Power?**

A. Yes, these switches support both IEEE 802.3af inline and Cisco Prestandard Inline Power.

Q. **Which ports support inline power on the Cisco Catalyst Express 500-24LC?**

A. Ports 1 through 4 on the Cisco Catalyst Express 500-24LC can support up to 15.4 watts (W) at the same time.

Q. **What is the maximum power per port supported on the Cisco Catalyst Express 500-24PC and the Cisco Catalyst Express 500-24LC?**

A. For the Cisco Catalyst Express 500-24LC, each of the four PoE ports can support up to 15.4W per port. All four ports can supply 15.4W at the same time. For the Cisco Catalyst Express 500-24PC, each of the twenty-four 10/100 ports can support up to 15.4W per port. All 24 ports can supply 15.4W at the same time. There is no need to do creative power budgeting or worry about exceeding the power limit or adding an external power shelf.

Q. **Do the Cisco Catalyst Express 500-24PC and 500-24LC support power management?**

A. No, because the Cisco Catalyst Express 500-24PC and 500-24LC can support the IEEE maximum of 15.4W on all PoE-capable ports simultaneously, power management is not necessary on these switches.

Q. **What are the power requirements of the Cisco Catalyst Express 500 Series Switches?**

A. Table 2 lists the power requirements of the Cisco Catalyst Express 500 Series Switches.

Table 2. Power Requirements

Switch Model	Power Consumption (maximum)	Power Dissipation	Power Rating
Cisco Catalyst Express 500-24TT (WS-CE500-24TT)	30W or 102 BTUs per hour	30W	0.050kVA
Cisco Catalyst Express 500-24LC (WS-CE500-24LC)	110W or 375 BTUs per hour	45W	0.1 20kVA
Cisco Catalyst Express 500-24PC (WS-CE500-24PC)	460W or 1570 BTUs per hour	90W	0.460kVA
Cisco Catalyst Express 500G-12TC (WS-CE500G-12TC)	45W or 154 BTUs per hour	45W	0.075kVA

Q. **Why are some of the power dissipation numbers lower than the power consumption numbers?**

A. The difference between the power consumption number and the power dissipation number is the amount of power dissipated in the powered end devices.

SFP Support

Q. **Do the Cisco Catalyst Express 500 Series Switches support the Cisco Catalyst 3560 Small Form-Factor Pluggable (SFP) interconnect cable?**

A. No, the Cisco Catalyst Express 500 Series Switches do not support the Cisco Catalyst 3560 SFP interconnect cable. Simply use the 10/100/1000BASE-T port to interconnect adjacent switches.

Q. **Which SFPs are supported on the Cisco Catalyst Express 500 Series Switches?**

A. The Cisco Catalyst Express 500 Series Switches support the following Cisco SFPs:

- 100BASE-BX-10D
- 100BASE-BX-10U
- 100BASE-FX-FE

- 100BASE-FX-GE

- 100BASE-LX

- 1000BASE-LX/LH

- 1000BASE-SX

Q. **Are the Cisco Coarse Wavelength-Division Multiplexing (CWDM) and Dense Wavelength-Division Multiplexing (DWDM) SFPs supported on the Cisco Catalyst Express 500 Series Switches?**

A. No, the Cisco CWDM and DWDM SFPs are not supported.

Security

Q. **What do the different levels of security mean in Cisco Catalyst Express 500 Series Switches?**

A. There are three levels of access security. The default level is Low.

- Low: Only one device, or one PC and IP phone, is allowed per port.

- Medium: Only authorized devices (via MAC address) are allowed on the network.

- High: Only authorized devices and authenticated users (via IEEE 802.1X) are allowed on the network.

Software Updates

Q. **How do I get a "no additional cost" Cisco IOS Software update for my Cisco Catalyst Express 500 Series Switch?**

A. Customers that own a software license for the Cisco Catalyst Express 500 series may obtain a software update at the Cisco.com Website.

Go to http://tools.cisco.com/support/downloads/pub/MDFTree.x?butype=switches or from http://www.cisco.com click "Downloads" and select "Switch Software." To download software, you will be required to log in using your Cisco.com username and password. If you do not have a Cisco.com username, you can obtain one by clicking "Register" at the top of any Cisco.com Webpage (http://tools.cisco.com/RPF/register/register.do).

Warranty and Service

Limited Lifetime Warranty

The hardware warranty available on Cisco Catalyst 3750-E, 3560-E, 3750, 3560, 3550, 2970, 2960, 2950, 2940, Express 500, and 3500 XL Series Switches is the Limited Lifetime Hardware Warranty. This warranty automatically comes with the purchase of eligible Cisco Catalyst products, free of charge. Additionally, it offers free advanced replacement of products within 10 business days. For details about the Limited Lifetime Hardware Warranty, visit http://www.cisco.com/univercd/cc/td/doc/es_inpck/lh2ben__.htm.

Q. **What service and support are available for the Cisco Catalyst Express 500 Series Switches?**

A. Cisco is committed to minimizing total cost of ownership. The company offers a portfolio of technical support services to help ensure that its products operate efficiently, remain highly available, and benefit from the most up-to-date system software. The services and support programs described in Table 3 (SMARTnet®) and Table 4 (SMBSA) are available as part of

the Cisco Catalyst Express 500 Service and Support solution and are available directly from Cisco and through resellers.

Table 3.   SMARTnet Service and Support Programs

Service and Support	Features	Benefits
• Cisco SMARTnet, available direct from Cisco • Cisco Packaged SMARTnet support program, available through resellers	• Access to software updates 24 hours a day • Web access to technical repositories • Telephone support through the Cisco Technical Assistance Center (TAC) • Advance replacement of hardware parts	• Supplements existing staff • Helps ensure that functions meet needs Mitigates risk • Helps enable proactive or expedited issue resolution • Lowers total cost of ownership by using Cisco expertise and knowledge • Helps minimize network downtime

Table 4.   SMBSA Service and Support Programs

Service and Support	Features	Benefits
• Cisco SMB Support Assistant direct from Cisco • Packaged Cisco SMB Support Assistant support: available through resellers • 24x7 service request (case): SMB Technical Assistance Center (TAC) engineers will respond within one business day during normal business hours	• Next business day advance replacement of hardware, where available; otherwise same day ship. • Management tools designed for SMBs: startup and configuration assistance, basic health checks and troubleshooting, inventory, and contract management	• Lowers cost of ownership by using Cisco expertise and knowledge • Minimizes network downtime

Additional Product Information

Q. **Where can I find product specifications and other information about the Cisco Catalyst Express 500 Series Switches?**

A. For product literature such as data sheets and product specifications, visit http://www.cisco.com/go/catalystexpress500.

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Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.