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## Overview

Cisco® Catalyst® 1000 Series Switches are fixed managed Gigabit Ethernet enterprise-class Layer 2 switches designed for small businesses and branch offices. These are simple, flexible and secure switches ideal for out-of-the-wiring-closet and critical Internet of Things (IoT) deployments. Cisco® Catalyst® 1000 operate on Cisco IOS® Software and support simple device management and network management via a Command-Line Interface (CLI) as well as an on-box web UI. These switches deliver enhanced network security, network reliability, and operational efficiency for small organizations.

### Quick Specs

Table 1 shows the Quick Specs.

<b>Product Code</b>	<b>C1000-24P-4G-L</b>
<b>Description</b>	24x 10/100/1000 Ethernet PoE+ ports and 195W PoE budget, 4x 1G SFP uplinks
<b>Gigabit Ethernet ports</b>	24
<b>Uplink interfaces</b>	4 SFP
<b>PoE+power budget</b>	195W
<b>Fanless</b>	Y
<b>Dimensions (WxDxH in inches)</b>	17.5 x 11.76 x 1.73
<b>CPU</b>	ARM v7 800 MHz
<b>DRAM</b>	512 MB
<b>Flash memory</b>	256 MB
<b>Forwarding bandwidth</b>	28 Gbps
<b>Switching bandwidth</b>	56 Gbps
<b>Forwarding rate(64—byte L3 packets)</b>	41.67 Mpps

### Product Details

The Cisco Catalyst 1000 Series Switches provides these features:

- \* 8, 16, 24, or 48 Gigabit Ethernet data or PoE+ ports with line-rate forwarding
- \* 2 or 4 fixed 1 Gigabit Ethernet Small Form-Factor Pluggable (SFP)/RJ 45 Combo uplinks or 4 fixed 0 Gigabit Ethernet Enhanced SFP (SFP+) uplinks
- \* Perpetual PoE+ support with a power budget of up to 740W
- \* CLI and/or intuitive web UI manageability options
- \* Network monitoring through sampled flow (sFlow)
- \* Security with 802.1X support for connected devices, Switched Port Analyzer (SPAN), and Bridge Protocol Data Unit (BPDU) Guard
- \* Compact fanless models available with a depth of less than 13 inches (33 cm)
- \* Device management support with over-the-air access via Bluetooth, Simple Network Management Protocol (SNMP), RJ-45, or USB console access
- \* Reliability with a higher Mean Time Between Failures (MTBF) and an enhanced limited lifetime warranty support(E-LLW)

### Compare to Similar Items

Table 2 shows the comparison.

<b>Product Code</b>	<b>C1000-24FP-4G-L</b>	<b>C1000-24P-4G-L</b>	<b>C1000-24T-4G-L</b>	<b>C1000-24FP-4X-L</b>	<b>C1000-24P-4X-L</b>	<b>C1000-24T-4X-L</b>
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<b>Description</b>	24x 10/100/1000 Ethernet PoE+ ports and 370W PoE budget, 4x 1G SFP uplinks	24x 10/100/1000 Ethernet PoE+ ports and 195W PoE budget, 4x 1G SFP uplinks	24x 10/100/1000 Ethernet ports, 4x 1G SFP uplinks	24x 10/100/1000 Ethernet PoE+ ports and 370W PoE budget, 4x 10G SFP+ uplinks	24x 10/100/1000 Ethernet PoE+ ports and 195W PoE budget, 4x 10G SFP+ uplinks	24x 10/100/1000 Ethernet ports, 4x 10G SFP+ uplinks
<b>Gigabit Ethernet ports</b>	24	24	24	24	24	24
<b>Uplink interfaces</b>	4 SFP	4 SFP	4 SFP	4 SFP+	4 SFP+	4 SFP+
<b>PoE+power budget</b>	370W	195W	\	370W	195W	\
<b>Fanless</b>	N	Y	Y	N	Y	Y
<b>Dimensions (WxDxH in inches)</b>	17.5 x 13.59 x 1.73	17.5 x 11.76 x 1.73	17.5 x 9.45 x 1.73	17.5 x 13.59 x 1.73	17.5 x 11.76 x 1.73	17.5 x 9.45 x 1.73
<b>CPU</b>	ARM v7 800 MHz	ARM v7 800 MHz	ARM v7 800 MHz	ARM v7 800 MHz	ARM v7 800 MHz	ARM v7 800 MHz
<b>DRAM</b>	512 MB	512 MB	512 MB	512 MB	512 MB	512 MB
<b>Flash memory</b>	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB
<b>Forwarding bandwidth</b>	28 Gbps	28 Gbps	28 Gbps	64 Gbps	64 Gbps	64 Gbps
<b>Switching bandwidth</b>	56 Gbps	56 Gbps	56 Gbps	128 Gbps	128 Gbps	128 Gbps
<b>Forwarding rate(64—byte L3 packets)</b>	41.67 Mpps	41.67 Mpps	41.67 Mpps	41.67 Mpps	41.67 Mpps	41.67 Mpps

## Get More Information

Do you have any question about the C1000-24P-4G-L?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

## Specification

<b>C1000-24P-4G-L Specification</b>	
<b>Description</b>	24x 10/100/1000 Ethernet PoE+ ports and 195W PoE budget, 4x 1G SFP uplinks
<b>Gigabit Ethernet ports</b>	24
<b>Uplink interfaces</b>	4 SFP
<b>PoE+power budget</b>	195W
<b>Fanless</b>	Y
<b>Dimensions (WxDxH in inches)</b>	17.5 x 11.76 x 1.73
<b>Console ports</b>	
<b>RJ-45 Ethernet</b>	1
<b>USB mini-B</b>	1
<b>USB-A port for storage and Bluetooth console</b>	1

<b>Memory and processor</b>	
<b>CPU</b>	ARM v7 800 MHz
<b>DRAM</b>	512 MB
<b>Flash memory</b>	256 MB
<b>Performance</b>	
<b>Forwarding bandwidth</b>	28 Gbps
<b>Switching bandwidth</b>	56 Gbps
<b>Forwarding rate(64—byte L3 packets)</b>	41.67 Mpps
<b>Unicast MAC addresses</b>	16000
<b>IPv4 unicast direct routes</b>	542
<b>IPv4 unicast indirect routes</b>	256
<b>IPv6 unicast direct routes</b>	414
<b>IPv6 unicast indirect routes</b>	128
<b>IPv4 static routes</b>	16
<b>IPv6 static routes</b>	16
<b>IPv4 multicast routes and IGMP groups</b>	1024
<b>IPv6 multicast groups</b>	1024
<b>IPv4/MAC security ACEs</b>	600
<b>IPv6 security ACEs</b>	600
<b>Maximum active VLANs</b>	256
<b>VLAN IDs available</b>	4094
<b>Maximum STP instances</b>	64
<b>Maximum SPAN sessions</b>	4
<b>MTU-L3 packet</b>	9198 bytes
<b>Jumbo Ethernet frame</b>	10,240 bytes
<b>Dying Gasp</b>	Yes
<b>MTBF in hours (data)</b>	2,026,793
<b>MTBF in hours (PoE)</b>	698,220
<b>MTBF in hours (Full PoE)</b>	698,220
<b>Environmental</b>	
<b>Operating temperature Seal level</b>	-5 to 50 deg C*
<b>Up to 5,000ft (1500 m)</b>	-5 to 45 deg C
<b>Upto 10,000 (3000 m)</b>	-5 to 40 deg C
<b>Operating altitude</b>	10,000 ft (3,000m)
<b>Operating relative humidity</b>	5% to 90% at 40C

<b>Storage temperature</b>	-13 to 158F (-25 to 70C)
<b>Storage altitude</b>	15,000 ft (4500m)
<b>Storage relative humidit</b>	5% to 95% at 65C
<p><b>*Note:</b> 50C operation is supported for short term operation only; GLC-BX-D/U and CWDM optics cannot support 50C operation; Minimum ambient temperature for cold start is at 0C (32F)</p>	
<b>Safety and compliance</b>	
<b>Safety</b>	UL 60950-1 Second Edition, CAN/CSA-C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition, AS/NZS 60950-1, IEC 62368-1, UL 62368-1 GB 4943.1-2011
<b>EMC: Emissions</b>	47CFR Part 15 Class A, AS/NZS CISPR32 Class A, CISPR32 Class A, EN55032 Class A, ICES-003 Class A, VCCI-CISPR32 Class A, EN61000-3-2, EN61000-3-3, KN32 Class A, CNS13438 Class A
<b>EMC: Immunity</b>	EN55024 (including EN 61000-4-5), EN300386, KN35
<b>Environmental</b>	Reduction of Hazardous Substances (RoHS) including Directive 2011/65/EU
<b>Telco</b>	Common Language Equipment Identifier (CLEI) code
<b>U.S. government certifications</b>	TBD
<b>Connectors and interfaces</b>	
<b>Ethernet interfaces</b>	<ul style="list-style-type: none"> <li>* 10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 Unshielded Twisted Pair (UTP) cabling</li> <li>* 100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling</li> <li>* 1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling</li> <li>* 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Category 5 UTP cabling</li> </ul>
<b>Indicator LEDs</b>	<ul style="list-style-type: none"> <li>* Per-port status: link integrity, disabled, activity</li> <li>* System status: system</li> </ul>
<b>Console cables</b>	<ul style="list-style-type: none"> <li>* CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45</li> <li>* CAB-CONSOLE-USB Console cable 6 ft. with USB Type A and mini-B connectors</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>* Use the supplied AC power cord to connect the AC power connector to an AC power outlet</li> <li>* Models have external power supply</li> </ul>

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- Fax: +852-3050-1066 (Hong Kong)
- Email: [sales@router-switch.com](mailto:sales@router-switch.com)