



## 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 Specification

|                                      |  |
|--------------------------------------|--|
| Product Code                         | C1000-48P-4G-L   |
| Description                          | 48x 10/100/1000 Ethernet PoE+ and 370W PoE budget ports, 4x 1G SFP uplinks |
| Gigabit Ethernet ports               | 48   |
| Uplink interfaces                    | 4 SFP  |
| PoE+power budget                     | 370W   |
| Fanless                              | N  |
| Dimensions (WxDxH in inches)         | 17.5 x 13.78 x 1.73  |
| CPU                                  | ARM v7 800 MHz   |
| DRAM                                 | 512 MB   |
| Flash memory                         | 256 MB   |
| Forwarding bandwidth                 | 52 Gbps  |
| Switching bandwidth                  | 104 Gbps   |
| Forwarding rate (64—byte L3 packets) | 77.38 Mpps   |



## Product Details:

### The Front Panel:



#### 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)

## Accessories For C1000:

### Compare To Similar Items:

| Product Code | C1000-48FP-4G-L                                  | <a href="#">C1000-48P-4G-L</a>   | <a href="#">C1000-48T-4G-L</a>                    | C1000-48FP-4X-L                              | <a href="#">C1000-48P-4X-L</a>               | C1000-48T-4X-L                                      |
|--------------|--|--|---|--|--|---|
| Description  | 48x 10/100/1000 Ethernet PoE+ ports and 740W PoE | 48x 10/100/1000 Ethernet PoE+ ports and 370W PoE budget, 4x 1G SFP uplinks | 48x 10/100/1000 Ethernet ports, 4x 1G SFP uplinks | 48x 10/100/1000 Ethernet PoE+ ports and 740W | 48x 10/100/1000 Ethernet PoE+ ports and 370W | 48x 10/100/1000 Ethernet ports, 4x 10G SFP+ uplinks |

# C1000-48P-4G-L Datasheet

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|                                      |                           |                     |                     |                                 |                                 |                     |
|--------------------------------------|---------------------------|---------------------|---------------------|---------------------------------|---------------------------------|---------------------|
|                                      | budget, 4x 1G SFP uplinks |                     |                     | PoE budget, 4x 10G SFP+ uplinks | PoE budget, 4x 10G SFP+ uplinks |                     |
| Gigabit Ethernet ports               | 48                        | 48                  | 48                  | 48                              | 48                              | 48                  |
| Uplink interfaces                    | 4 SFP                     | 4 SFP               | 4 SFP               | 4 SFP+                          | 4 SFP+                          | 4 SFP+              |
| PoE+power budget                     | 740W                      | 370W                | \                   | 740W                            | 370W                            | \                   |
| Fanless                              | N                         | N                   | N                   | N                               | N                               | N                   |
| Dimensions (WxDxH in inches)         | 17.5 x 13.78 x 1.73       | 17.5 x 13.78 x 1.73 | 17.5 x 10.73 x 1.73 | 17.5 x 13.78 x 1.73             | 17.5 x 13.78 x 1.73             | 17.5 x 10.73 x 1.73 |
| CPU                                  | ARM v7 800 MHz            | ARM v7 800 MHz      | ARM v7 800 MHz      | ARM v7 800 MHz                  | ARM v7 800 MHz                  | ARM v7 800 MHz      |
| DRAM                                 | 512MB                     | 512MB               | 512MB               | 512MB                           | 512MB                           | 512MB               |
| Flash memory                         | 256MB                     | 256MB               | 256MB               | 256MB                           | 256MB                           | 256MB               |
| Forwarding bandwidth                 | 52 Gbps                   | 52 Gbps             | 52 Gbps             | 88 Gbps                         | 88 Gbps                         | 88 Gbps             |
| Switching bandwidth                  | 104 Gbps                  | 104 Gbps            | 104 Gbps            | 176 Gbps                        | 176 Gbps                        | 176 Gbps            |
| Forwarding rate (64—byte L3 packets) | 77.38 Mpps                | 77.38 Mpps          | 77.38 Mpps          | 77.38 Mpps                      | 77.38 Mpps                      | 77.38 Mpps          |

Get more information:

Do you have any question about C1000-48P-4G-L?

Contact us now via e-mail: [info@hi-network.com](mailto:info@hi-network.com)

## Specific Data Sheet:

|                              |  |
|------------------------------|--|
| Description                  | 48x 10/100/1000 Ethernet PoE+ and 370W PoE budget ports, 4x 1G SFP uplinks |
| Gigabit Ethernet ports       | 48   |
| Uplink interfaces            | 4 SFP  |
| PoE+ power budget            | 370W   |
| Fanless                      | N  |
| Dimensions (WxDxH in inches) | 17.5 x 13.78 x 1.73  |



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|  |                    |
|--|--------------------|
| RJ-45 Ethernet                               | 1                  |
| USB mini-B                                   | 1                  |
| USB-A port for storage and Bluetooth console | 1                  |
| CPU  | ARM v7 800 MHz     |
| DRAM   | 512MB              |
| Flash memory                                 | 256MB              |
| Forwarding bandwidth                         | 52 Gbps            |
| Switching bandwidth                          | 104 Gbps           |
| Forwarding rate(64—byte L3 packets)          | 77.38 Mpps         |
| Unicast MAC addresses                        | 16000              |
| IPv4 unicast direct routes                   | 542                |
| IPv4 unicast indirect routes                 | 256                |
| IPv6 unicast direct routes                   | 414                |
| IPv6 unicast indirect routes                 | 128                |
| IPv4 static routes                           | 16                 |
| IPv6 static routes                           | 16                 |
| IPv4 multicast routes and IGMP groups        | 1024               |
| IPv6 multicast groups                        | 1024               |
| IPv4/MAC security ACEs                       | 600                |
| IPv6 security ACEs                           | 600                |
| Maximum active VLANs                         | 256                |
| VLAN IDs available                           | 4094               |
| Maximum STP instances                        | 64                 |
| Maximum SPAN sessions                        | 4                  |
| MTU-L3 packet                                | 9198 bytes         |
| Jumbo Ethernet frame                         | 10,240 bytes       |
| Dying Gasp                                   | Yes                |
| MTBF in hours (data)                         | 1,452,667          |
| MTBF in hours (PoE)                          | 856,329            |
| MTBF in hours (Full PoE)                     | 856,329            |
| Operating temperature Seal level             | -5 to 50 deg C*    |
| Up to 5,000ft (1500 m)                       | -5 to 45 deg C     |
| Upto 10,000 (3000 m)                         | -5 to 40 deg C     |
| Operating altitude                           | 10,000 ft (3,000m) |
| Operating relative humidity                  | 5% to 90% at 40C   |



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|  |   |
|--|---|
| Storage temperature  | -13 to 158F (-25 to 70C)  |
| Storage altitude   | 15,000 ft (4500m)   |
| Storage relative humidit   | 5% to 95% at 65C  |
| <p>*Note:<br/>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> |   |
| Safety   | 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  |
| EMC: Emissions   | 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   |
| EMC: Immunity  | EN55024 (including EN 61000-4-5), EN300386, KN35  |
| Environmental  | Reduction of Hazardous Substances (RoHS) including Directive 2011/65/EU   |
| Telco  | Common Language Equipment Identifier (CLEI) code  |
| U.S. government certifications   | TBD   |
| Ethernet interfaces  | <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> |
| Indicator LEDs   | <ul style="list-style-type: none"> <li>* Per-port status: link integrity, disabled, activity</li> <li>* System status: system</li> </ul>  |
| Console cables   | <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>  |
| Power  | <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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