# C1000-48T-4G-L Datasheet

SMART SCURITY SOLUTIONS
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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 onCisco 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 Spec

Table 1 shows the quick spec.

| Model | C1000-48T-4G-L |
|---|---|
| Description | 48x 10/100/1000 Ethernet ports, 4x 1G SFP uplinks |
| Gigabit Ethernet ports | 48 |
| Uplink interfaces | 4 SFP |
| PoE+power budget | \ |
| Fanless | N |
| Dimensions (WxDxH in inches) | 17.5 x 10.73 x 1.73 |
| CPU | ARM v7 800 MH |
| 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 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).

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## Specification

| C1000-48T-4G-L Specification | |
|---|---|
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| PoE+power budget | \ |
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| Dimensions (WxDxH in inches) | 17.5 x 10.73 x 1.73 |
| **Console ports** | |
| RJ-45 Ethernet | 1 |
| USB mini-B | 1 |
| USB-A port for storage and Bluetooth console | 1 |
| **Memory and processor** | |
| CPU | ARM v7 800 MHz |
| DRAM | 512 MB |
| Flash memory | 256 MB |
| **Performance** | |
| Forwarding bandwidth | 28 Gbps |
| Switching bandwidth | 56 Gbps |
| Forwarding rate(64—byte L3 packets) | 41.67 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 |

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| | |
|---|---|
| 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) | 2,026,793 |
| MTBF in hours (PoE) | 698,220 |
| MTBF in hours (Full PoE) | 698,220 |
| **Environmental** | |
| 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 |
| Storage temperature | -13 to 158F (-25 to 70C) |
| Storage altitude | 15,000 ft (4500m) |
| Storage relative humidit | 5% to 95% at 65C |

**\*Note:**
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)

| **Safety and compliance** | |
|---|---|
| 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 |
| **Connectors and interfaces** | |
| Ethernet interfaces | * 10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 Unshielded Twisted Pair (UTP) cabling<br>* 100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling<br>* 1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling<br>* 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Category 5 UTP cabling |

| Indicator LEDs | * Per-port status: link integrity, disabled, activity<br>* System status: system |
|---|---|
| Console cables | * CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45<br>* CAB-CONSOLE-USB Console cable 6 ft. with USB Type A and mini-B connectors |
| Power | * Use the supplied AC power cord to connect the AC power connector to an AC power outlet<br>* Models have external power supply |

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