

## CISCO C1000-8T-2G-L DATASHEET

### Overview

The Cisco Catalyst C1000-8T-2G-L is a compact, fanless Layer 2 managed switch with 8 Gigabit Ethernet ports and 2 combo Gigabit SFP/RJ-45 uplinks, designed for small businesses and branch offices. It offers robust security features including 802.1X authentication, ACLs, and BPDU Guard, ensuring network protection and control. The switch provides a switching capacity of 20 Gbps and a forwarding rate of 14.88 million packets per second, supporting essential Layer 2 functions like VLANs, QoS, and spanning tree protocols. Easy to manage via CLI or intuitive web UI, it supports SNMP and secure remote access, while its energy-efficient design reduces power consumption. Its silent operation and compact form factor make it ideal for noise-sensitive environments and small wiring closets.

### QUICK SPEC

FIGURE 1: APPEARANCE OF C1000-8T-2G-L



TABLE 1: Quick Specs

SKU	C1000-8T-2G-L
Backplane speed	20 Gbps
Throughput	10 Gbps
Ports	8 10/100/1000 RJ45 Data and 2 SFP/ RJ-45 combo
Dimensions (W x H x D)	10.56 x 7.28 x 1.73



Product Details



FIGURE 2: FRONT PANEL OF C1000-8T-2G-L

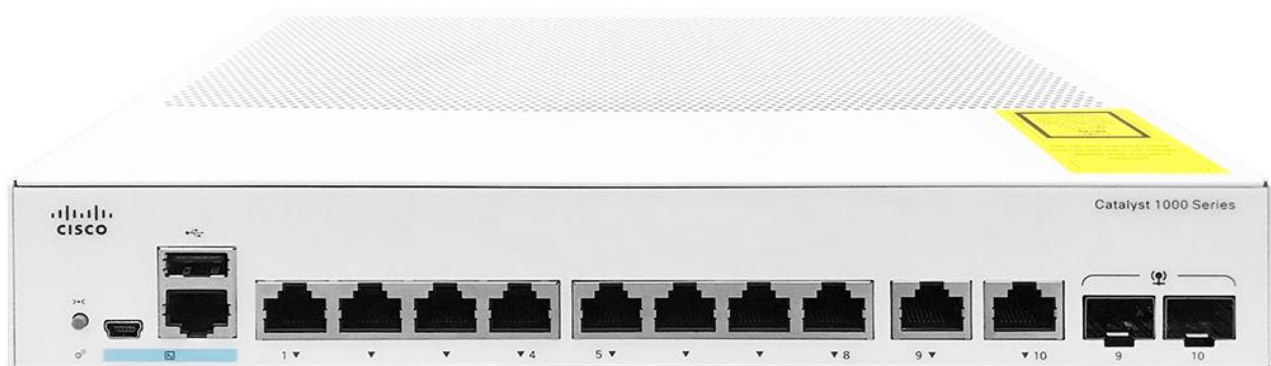
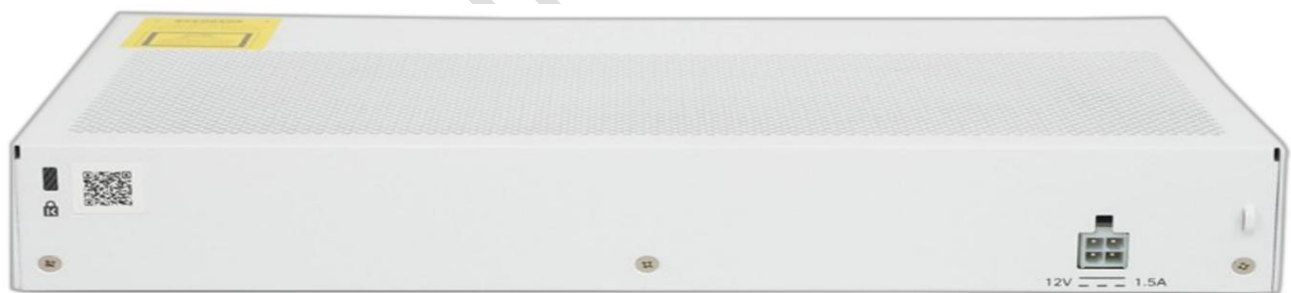


FIGURE 3: BACK PANEL OF C1000-8T-2G-L



C1000-8T-4G-L Switch provides these features:

#### 1.8 x 10/100/1000 Gigabit Ethernet Ports

These ports provide high-speed and reliable wired connectivity for devices such as desktops, IP phones, and printers, ensuring seamless data transfer and network access at gigabit speeds.



## **2.2 x Combo Gigabit SFP Uplink Ports**

The two combo uplinks support fiber or copper modules, offering flexible and scalable connections to the wider network backbone or core switches for efficient network expansion.

## **3.20 Gbps Switching Bandwidth & 14.88 Mpps Forwarding Rate**

This high switching capacity and packet forwarding rate guarantees fast, uninterrupted data flow to meet the demands of business-critical applications and multiple simultaneous network transactions.

## **4.Fanless, Silent Operation**

This switch is designed without fans, this switch operates silently, making it ideal for noise-sensitive environments like offices and retail locations, while also reducing maintenance requirements.

## **5.Advanced Security Features**

It includes 802.1X authentication for device access control, Access Control Lists (ACLs) to enforce traffic policies, BPDU Guard to prevent network loops, and port security to protect against unauthorized device connections.

## **6.Comprehensive Layer 2 Functionality**

It supports VLAN segmentation for network organization, Quality of Service (QoS) to prioritize traffic, IGMP snooping for multicast control, and multiple spanning tree protocols (STP, RSTP, MSTP) for network resiliency and loop prevention.

## **7.Easy Management**

In this switch the configuration and monitoring can be done via an intuitive web user interface or Cisco IOS CLI, with support for SNMP, secure SSH access, and industry-standard RADIUS and TACACS+ authentication for secure administrative control.

## **8.Energy Efficient Ethernet (EEE)**

It automatically reduces power consumption during periods of low network traffic, lowering operational costs and contributing to greener IT operations.

## **SPECIFICATIONS**

C1000-8T-2G-L SPECIFICATIONS	
Model	C1000-8T-2G-L
Weight (kg)	1.80
Dimensions (WxDxH in inches)	10.56 x 7.28 x 1.73

Gigabit Ethernet / FE ports	8 10/100/1000 RJ45 Data
Uplink interfaces	2 SFP/ RJ-45 combo
RJ-45 Ethernet	1
CPU	ARM v7 800 MHz
DRAM	512 MB
Flash memory	256 MB
Forwarding bandwidth	10 Gbps
Switching bandwidth	20 Gbps
Forwarding rate(64-byte L3 packets)	14.88 Mpps
14.88 Mpps	16000
IPv4 unicast direct routes	542
IPv4 unicast indirect routes	256
IPv6 unicast direct routes	414
IPv6 unicast indirect routes	128
Maximum active VLANs	256
VLAN IDs available	4094
Maximum STP instances	64
MTU-L3 packet	9198 bytes
Jumbo Ethernet frame	10,240 bytes
Dying Gasp	Yes
MTBF in hours (data)	2,171,669
MTBF in hours (PoE)	1,786,412, 1,706,649 (External PS)
MTBF in hours (Full PoE)	1,706,649
Sea level (Operating temperature)	-5 to 50 deg C*
Up to 5,000ft (1500 m) (Operating temperature)	-5 to 45 deg C
Upto 10,000 (3000 m) (Operating temperature)	-5 to 40 deg C
Operating altitude	10,000 ft (3,000m)
Operating relative humidity	5% to 90% at 40 deg C (non-condensing)
Storage temperature	-13 to 158F (-25 to 70C)
Storage altitude	15,000 ft (4500m)
Storage relative humidit	5% to 95% at 65 deg C (non-condensing)



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