C1000FE-24T-4G-L DATASHEET

Overview

The Cisco Catalyst C1000FE-24T-4G-L is a fixed managed Layer 2 switch designed for small businesses and branch offices. It features 24 Fast Ethernet (10/100) ports with 2 Gigabit 1G SFP and 2 combo RJ-45/1G SFP uplinks. The switch is fanless for silent operation and supports simple device management via CLI and web UI. It provides enhanced network security, reliability, and operational efficiency ideal for IoT and wiring closet deployments. Dimensions are approximately 440 x 288 x 44 mm, and it carries a limited lifetime warranty. The device delivers reliable, secure connectivity with scalable management options.
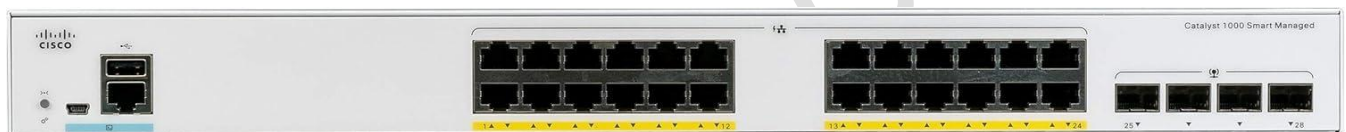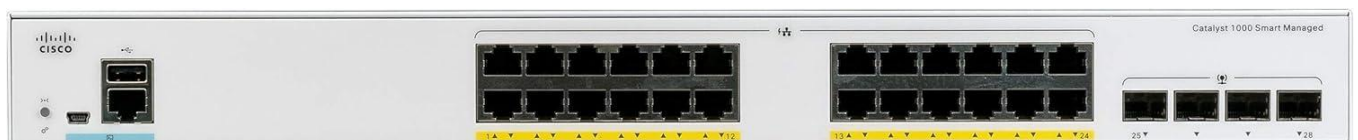
QUICK SPEC

FIGURE 1: APPEARANCE OF C1000FE-24T-4G-L

TABLE 1: Quick Specs

SKU	C1000FE-24T-4G-L
Backplane speed	6.4 Gbps
Throughput	8.8 Gbps
Ports	24x 10/100 Ethernet ports, 2x 1GSFP and RJ-45 combo uplinks and 2x 1G SFP uplinks
Dimensions (W x H x D)	17.32 x 11.34 x 1.73

Product Details

FIGURE 2: FRONT PANEL OF C1000FE-24T-4G-L

C1000FE-24T-4G-L Switch provides these features:

1.24 Fast Ethernet 10/100 Ports:

The switch provides 24 10/100 Ethernet ports ideal for reliable connectivity of legacy devices and bandwidth-optimized applications. These ports offer consistent data transfer with effective traffic handling suited to smaller or bandwidth-limited network environments.

2.Four Flexible Uplink Ports (2 Combo SFP/RJ-45 and 2 SFP):

This switch includes two combo ports that can be used as either RJ-45 or SFP ports plus two additional SFP-only ports, enabling flexible uplink options using fiber or copper connections. This flexibility supports diverse network topologies and scalable backbone integration.

3.High Switching and Forwarding Bandwidth:

It has a switching bandwidth of 56 Gbps and forwarding bandwidth of 28 Gbps alongside a forwarding rate of 41.67 million packets per second, that makes this switch embedded with high-throughput, low-latency network performance.

4.Robust Processing and Memory:

It is equipped with an ARM v7 800 MHz CPU, 512 MB RAM, and 256 MB flash memory, that ensures efficient processing of network traffic and supports advanced network features, contributing to improved stability and performance under load.

5.Comprehensive Layer 2 Security and Management Features:

It's security is strengthened by support for 802.1X port authentication, access control lists (ACLs), BPDU Guard, and port security. Management is simplified through an intuitive web UI, CLI, SNMP, and secure remote access options such as SSH.

6.Energy Efficient and Compact Design:

The switch supports Energy Efficient Ethernet (IEEE 802.3az), reducing power consumption during idle periods. Its rack-mountable form factor with a depth of just 1.73 inches makes it suitable for space-constrained wiring closets and office racks, facilitating easy integration.

SPECIFICATION

C1000FE-24T-4G-L SPECIFICATIONS	
Model	C1000FE-24T-4G-L
Weight (kg)	3.56
Dimensions (WxDxH in inches)	17.32 x 11.34 x 1.73
Gigabit Ethernet / FE ports	24 10/100 RJ45 Data
Uplink interfaces	2 SFP/ RJ-45 combo and 2 SFP
CPU	ARM v7 800 MHz

DRAM	512 MB
Flash memory	256 MB
Forwarding bandwidth	FE: 6.4 Gbps 1G: 28 Gbps 10G: 64 Gbps
Switching bandwidth	FE: 12.8 Gbps 1G: 56 Gbps 10G: 128 Gbps
Forwarding rate (64-byte L3 packets)	FE: 9.52 Mpps 1G: 41.67 Mpps 10G: 95.23 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
Maximum active VLANs	256
VLAN IDs available	4094
Maximum STP instances	4
MTU-L3 packet	9198 bytes
Jumbo Ethernet frame	10,240 bytes
Dying Gasp	Yes (FE: No)
MTBF in hours (data)	2,026,793
MTBF in hours (PoE)	698,220
MTBF in hours (Full PoE)	698,220
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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