

ECS6824F



CloudSwitch Core 24

Cloud Managed 24x SFP+ L3 Switch

Overview

EnGenius CloudSwitch Core ECS6824F is a high-performance cloud-managed Layer 3 fiber switch for enterprise aggregation, backbone connectivity, and scalable business networks. It delivers high throughput, low latency, high availability, hybrid cloud management, full local control, and cloud-based visibility. With 24 × 10G SFP+ fiber ports, the ECS6824F provides enterprise-class switching and routing capacity for high-density fiber environments. L3 routing with static routing, RIP, and OSPF, plus switching, QoS, ACL, and 802.1X authentication, simplifies operations and ensures reliable connectivity.



Features & Benefits

- 24× 10G SFP+ ports deliver high-speed fiber connectivity for aggregation, uplink, and enterprise networking applications.
- Hybrid cloud switch supports flexible management options such as EnGenius Cloud or standalone.
- Multicast Optimization with IGMP and MLD Snooping improves multicast traffic efficiency and network performance.
- Flexible Routing Protocol Support with RIP and OSPF enables scalable and adaptable network routing.
- Loop Prevention Mechanism with loopback detection helps maintain network stability by preventing broadcast storms.
- High Availability Networking with VRRP support provides gateway redundancy for uninterrupted network connectivity.
- Dual Internal Power Supply Redundancy ensures reliable and continuous operation.

Technical Specifications

General

Port Standards

802.3z 1000Base-X
802.3ae 10GBase-R

Network Port - SFP+ Ports

24

Console

RJ-45 Console x1

MGMT Port

1

USB

USB 2.0 x1

Switching Capacity

480Gbps

Forwarding Rate (64Bytes)

Up to 810 Mpps

SDRAM

DDR4 2GB

Flash Memory

SPI NOR Flash: 8MB + NAND Flash: 256MB

Power Source

AC in

L2 Features

Jumbo Frame

Up to 10K bytes

MAC address Table

Max. 16K

STP

Support STP/RSTP/MSTP
Port Fast/ BPDU Guard/ Root Guard

Port Channel

Support Static / LACP
Max. 8 trunks/ Max. 8 ports per trunk

VLAN

Max. 4K 802.1Q VLAN
GVRP, Voice VLAN, Surveillance VLAN

LLDP/LLDP-MED

Yes/Yes

Port Limited

Based on Tx/Rx

Loopback detection

Yes

L3 Features

Routing Table

IPv4: up to Max. 1000 entries (512 entries is for static route)
IPv6: up to Max. 1500 entries (256 entries is for static route)

IP Interface

128 for IPv4, 128 for IPv6

ARP

4K for IPv4, 8K for IPv6
Support ARP aging

IPv4/IPv6 Ping/ Traceroute

Yes

VRRP

Yes

L2/L3 Multicast Features

MLD

Max. 255 entries, shared by MLD/IGMP
MLD v1/v2
MLD Snooping

IGMP

Max. 255 entries, shared by MLD/IGMP
IGMP v1/v2/v3
IGMP Snooping

Routing Features

IPv4/IPv6 Static Route

Yes

RIP/RIPng

Yes/No

OSPFv2/v3

Yes

ACL Features

ACL entry

Max.256 entries is shared by IPv4 ingress/egress, and IPv6 ingress
Max.512 entries is shared by MAC ingress/egress, and IPv6 egress

Access List

Support IPv4/IPv6 standard and extended ACL
Support MAC ACL

QoS Features

Hardware queue

8

Based on 802.1q/ DSCP/ IP precedence

Yes (Based on 802.1q/ DSCP)

Queue scheduling

Support SP/ WRR

Bandwidth control

Based on Tx/Rx per port

Management Features

SNMP

Support IPv4 address
Support V1/V2c/V3

Web UI

Support IPv4/IPv6 HTTP/HTTPS

Technical Specifications

RMON

Support Statistics (Group 1)/ History (Group 2)/ Alarms (Group 3)/ Events (Group 9).

Mirror

Supports 3 mirroring groups
Based on One-to-One, Many-to-One

NTP

Support IPv4/IPv6 client address

DNS

Support IPv4/IPv6 client

DHCP Client

Support IPv4/IPv6

DHCP relay

Support IPv4 address
Support option 82

DHCP server

Support IPv4 address

DHCP Snooping

Support option 82
Support IP source guard (IP Filter)

Telnet

Support IPv4/IPv6 client
Support IPv4/IPv6 server

SSH

Support IPv4/IPv6 client
Support IPv4/IPv6 server

TFTP

Support IPv4/IPv6 client

Dual Image

Yes

Syslog Server

Support IPv4/IPv6 client

EnGenius Cloud management

Yes

OAM (Operations, Administration, and Maintenance) Features

DDM (Digital Optical Monitoring)

Yes

Security Features

Radius

Support IPv4 Radius client

Storm suppression

Support broadcast/ multicast/ unknown unicast
Based on pps (Packet per second)

802.1x

Based on Port/ Mac address-based
Support MAB (MAC Authentication Bypass)

Port Security

Yes

DOS protection

Yes

ARP protection

Static ARP

Environmental & Physical

Temperature Range

0-50

Operating Humidity (Non-Condensing)

10 - 90% (non-condensing)

Power Supply

2x Internal PSU

FAN

3

Device Dimensions & Weight

Form Factor

1U, 19-inch rack-mount

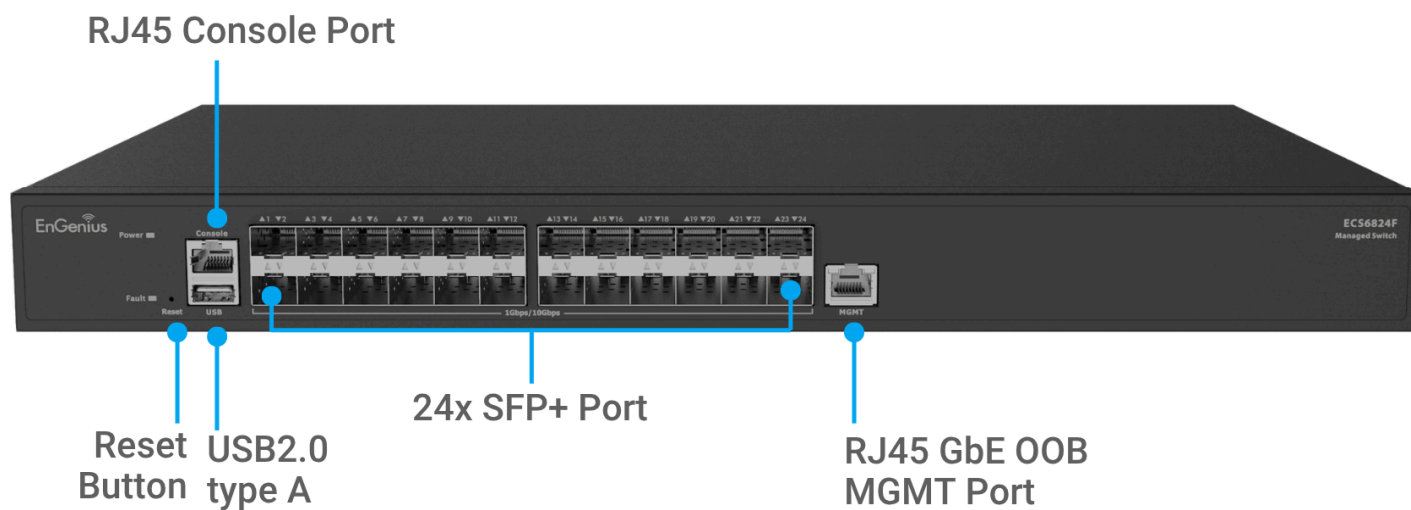
Device Dimensions

260mm x 440mm x 44mm

Package Contents

1x Cloud Managed Switch
1x Product Card
1x Power Cord
1x RJ45 Console Cable
1x Rack Mount Kit

Hardware Overview



Features and specifications subject to change without notice. Trademarks and registered trademarks are the property of their respective owners. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense. Prior to installing any surveillance equipment, it is your responsibility to ensure the installation is in compliance with local, state and federal video and audio surveillance and privacy laws.

