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-X

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 357.1 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 isolation
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
L2/L3 Multicast Max. 255 entries, shared by MLD/IGMP
MLD v1/v2
MLD Snooping

IGMP
L2/L3 Multicast Max. 255 entries, shared by MLD/IGMP
MLD v1/v2
MLD 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

DOM (Digital Optical Monitoring)
Yes

Security Features

RADIUS
Support IPv4 RADIUX 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
Operating: 32°F to 122°F (0°C to 50°C)

Humidity (non-condensing)
Operating: 10% to 90%

Power Supply
2x Internal PSU

FAN
3

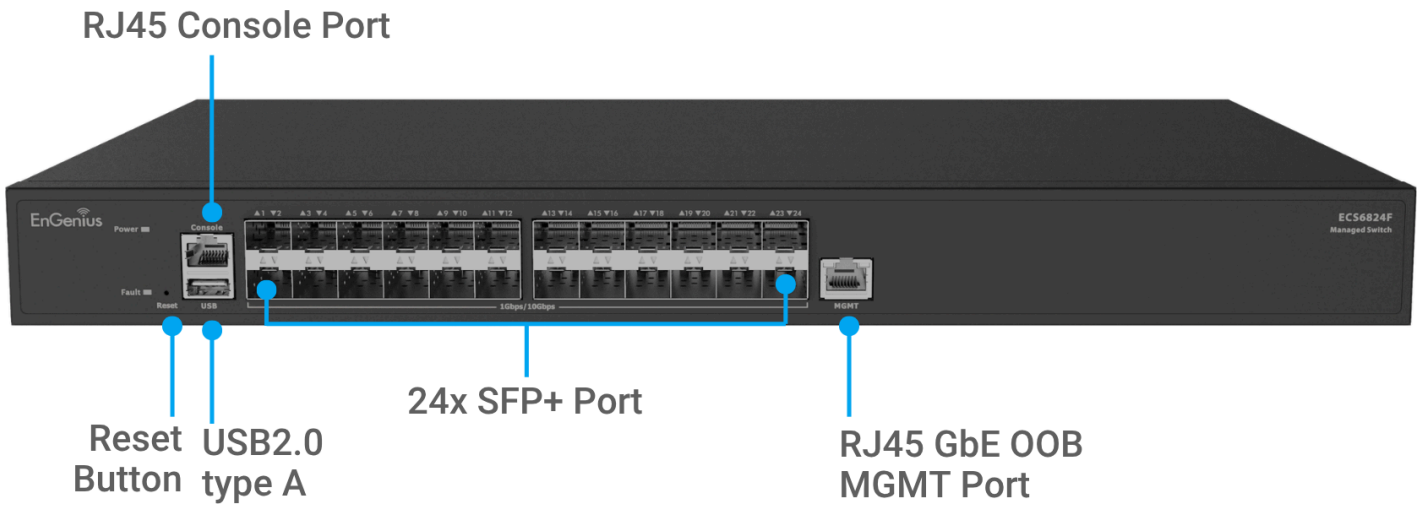
Device Dimensions & Weight

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



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