

Overview

- 24 or 48 10GbE SFP+ Ports
- 6 100GbE Uplink Ports
- Switching Capacity: 1.68 Tbps
- Forwarding Rate: ~600 Mpps
- Supports 1/2.5/10 GbE downlink speeds



Manufacturer: Edgecore

Specifications

Interfaces:

- 24 × 10 GbE SFP+ ports (also support 1 Gb, 2.5 Gb speeds)
- 6 × 100 GbE QSFP28 uplink ports (can operate as breakout to 40 GbE if needed)
- Management ports: 1 × RJ-45 Gigabit Ethernet, 1 × RJ-45 Console port, 1 × USB port

Performance

- Switching Capacity: 1.68 Tbps
- Forwarding Rate: 600 Mpps
- DRAM: 4 GB ECC
- eMMC Flash Memory: 8 GB eMMC
- MAC Address Table: ~32K entries

Power Supply

- Max Power Consumption: ~200 W
- Power supplies: 1+1 redundant, hot-swappable, available in AC or DC options
- Fans: 3+1 redundant, hot-swappable cooling module

Mechanical





Access Switch - ECS – 5550 – 30X Aggregation Switch

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- Rack mount: 1U, 19" rack
- Dimensions: 442 × 420 × 44 mm (≈17.4 × 16.5 × 1.7 in)
- Weight: 8.8 kg (≈19.4 lb) with dual PSUs and full fan modules installed

Environmental

- Operating Temperature: –5 °C to 50 °C (23–122 °F)
- Storage Temperature: –40 °C to 70 °C
- Humidity (non-condensing): 5% to 95%

L2 / L3-Lite Capabilities

- Comprehensive L2/L3-Lite protocol support including MSTP, LLDP, QinQ, VLAN translation, TrTCM, OAM (802.3ah), MLAG, etc.
- ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) with sub-50 ms convergence for high availability

Security & Management

- Security features: Port Security, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection (DAI), DoS protection
- Multicast control: IGMP/MLD Snooping, MVR (Multicast VLAN Registration) up to 5 multicast VLANs
- IPv6 robust support: Management, security, multicast control
- Management interfaces: CLI (console/telnet), SNMP v1/v2/v3, Web UI with private MIB support
- ONIE installer pre-loaded (no OS image shipped; user may install compatible NOS such as EdgeCOS or SONiC-Lite)

What's in the box

Package Content:

- ECS5550-30X switch chassis
- Rack-mount kit (front/rear brackets & screws)
- 2 × AC power cords (or DC cabling if chosen)
- Console cable (RJ-45 to DB-9)
- Grounding wire
- Documentation (Quick Start Guide, Safety & Regulatory information)

Interface overview

Interface Overview:

- 24 × 10G SFP+ downlink ports
- 6 × 100G QSFP28 uplink ports
- Management RJ-45, console RJ-45, USB port
- Grounding point, AC power sockets (and optional DC PSUs)

System LEDs:

- SYS: Green = OK; Flashing Green = Booting; Yellow = Fault
- MST: Green = Stack Master
- STACK: Green = Stack Mode Active
- FAN: Green = Normal; Yellow = Fan Fault
- PSU: Green = Power OK; Yellow = PSU Fault
- SFP+ LEDs: Green = 10G; Orange = 1G or 2.5G



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- QSFP28 LEDs: Green = 100G; may also indicate 40G breakout performance



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