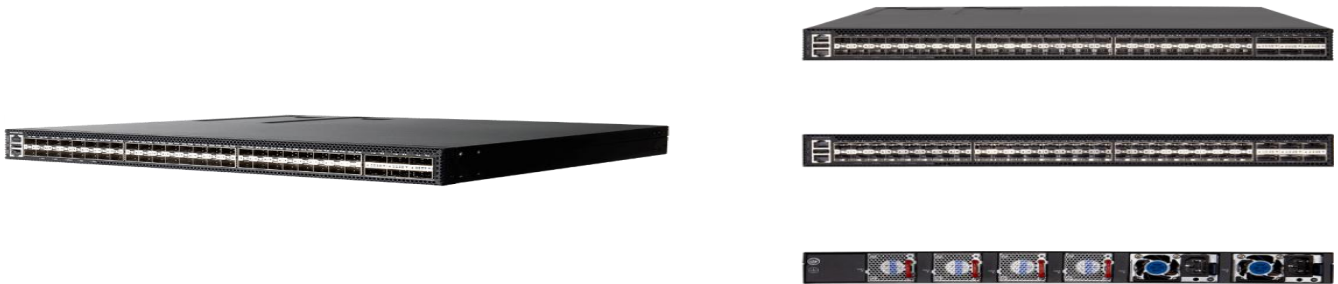


Overview

- 48 × 10 GbE SFP+ Ports (supporting 1 Gb, 2.5 Gb, 5 Gb, and 10 Gb speeds)
- 6 × 100 GbE QSFP28 Uplink Ports
- Switching Capacity: 2.16 Tbps
- Forwarding Rate: ~600 Mpps



Manufacturer: Edgecore

Specifications

Interfaces:

- 48 × multi-rate 10 GbE SFP+ downlink ports (also support 1 Gb, 2.5 Gb, 5 Gb speeds)
- 6 × 100 GbE QSFP28 uplink ports (with breakout capability to lower speeds)
- Management ports: 1 × RJ-45 Console, 1 × USB (management), plus standard RJ-45 Gigabit management port implied by series

Performance

- Switching Capacity: 2.16 Tbps
- Forwarding Rate: ~600 Mpps
- DRAM: 4 GB ECC
- Flash: 8 GB eMMC
- MAC Address Table: ~32 K entries

Power Supply

- Maximum Power Consumption: ~230 W
- Redundant, hot-swappable dual power supplies (AC or DC configurations)
- Hot-swappable fan tray with 1+1 or 3+1 redundancy depending on deployment

Mechanical





Access Switch - ECS – 5550 – 54X Aggregation Switch

Shasta certified hardware

- Rack: 1 RU, 19" chassis
- Dimensions: 442 × 420 × 44 mm (≈17.4 × 16.5 × 1.73 in)
- Weight: ~8.86 kg (≈19.5 lb) with full PSU and fan modules installed

Environmental

- Operating Temperature: –5 °C to 50 °C (23 °F to 122 °F)
- Storage Temperature: –40 °C to 70 °C (–40 °F to 158 °F)
- Relative Humidity (non-condensing): 5% to 95%

L2 / L3-Lite Capabilities

- Full suite of L2/L3-Lite protocols: MSTP, QinQ, VLAN translation, TrTCM, MLAG, ITU-T G.8032 ERPS (<50 ms convergence), OAM (802.3ah)
- IPv6-ready: includes management, security, and multicast control support
- Multicast features: IGMP/MLD Snooping, MVR (supporting up to 5 multicast VLANs)

Security & Management

- Security features: Port Security, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection (DAI), DoS protection
- Management options: CLI (console or Telnet), SNMP v1/v2/v3, intuitive Web UI, and full private MIB support for EMS integration
- ONIE pre-loaded for user-installed NOS (e.g., EdgeCOS, SONiC Lite)

What's in the box

Package Content:

- ECS5550-54X switch chassis
- Rack-mount kit (front and rear brackets with screws)
- AC power cords (if AC PSU selected) or equivalent DC cabling
- Console cable (RJ-45 to DE-9)
- Grounding wire
- Documentation (Quick Start Guide and Safety & Regulatory booklet)

Interface overview

Interface Overview:

- Front: 48 × 10 GbE SFP+ ports, 6 × 100 GbE QSFP28 uplink ports
- Rear: Console RJ-45 port, USB port, AC/DC power connectors, grounding point

System LEDs:

- SYS: Green = OK; Blinking = Booting; Yellow = Fault
- MST/STACK: Indicate stack master and active stack mode status
- FAN: Green = Normal; Yellow = Fan Fault
- PSU: Green = Power OK; Yellow = PSU Fault
- Per-port LEDs: SFP+ green for 10G, orange for lower speeds; QSFP28 green for 100G (or indicate 40G breakout)



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