

Data Center Switch

AS5835-54X



The Edgecore DCS201 switch meets the high-performance, availability, and network-scaling requirements of enterprise and cloud data centers. The DCS201 provides full line-rate switching at Layer 2 or Layer 3 across 48 x 10GbE ports and 6 x 100GbE uplinks. The switch can be deployed either as a Top-of-Rack switch, or as part of a 40GbE or 100GbE distributed spine, forming a non-blocking folded-Clos data center fabric. The switch is rack mountable in a standard 19-inch rack.

The DCS201 hardware provides the high availability features required for data center operation, including: Redundant, hot-swappable AC or -48 VDC PSUs, 4+1 redundant fan modules, and port-to-power or power-to-port airflow options. The DCS201 is an ideal Top-of-Rack switch for virtualized data centers with support for VXLAN and NVGRE tunneling functions in hardware. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System software, including the open source options, plus commercial NOS offerings.

Key Features and Benefits

- Cost-effective, open network switch for data center fabric.
- 48 x SFP+ switch ports, supporting 10GbE (DAC, 10GBASE-SR/LR) or 1GbE (1000BASE-T/SX/LX).
- 6 x 100 QSFP28 switch ports, each supporting 100GbE (DAC, 100GBASE SR4/LR4) or 4 x 25GbE (DAC or fiber breakout cable).
- VXLAN and NVGRE tunneling support in hardware for network virtualization.
- Rack mountable in standard 19" racks.
- Supports hot/cold aisles with port-to-power and power-to-port airflow SKUs.
- All ports on front; PSUs, fan modules on rear.
- Hot-swappable, load sharing, redundant AC or -48 VDC PSUs.
- Hot swappable 4+1 redundant fan modules.
- Management: Ethernet and console RJ-45 ports; USB storage port.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.



Freedom
of choice



Greater
control



Rapid
innovation

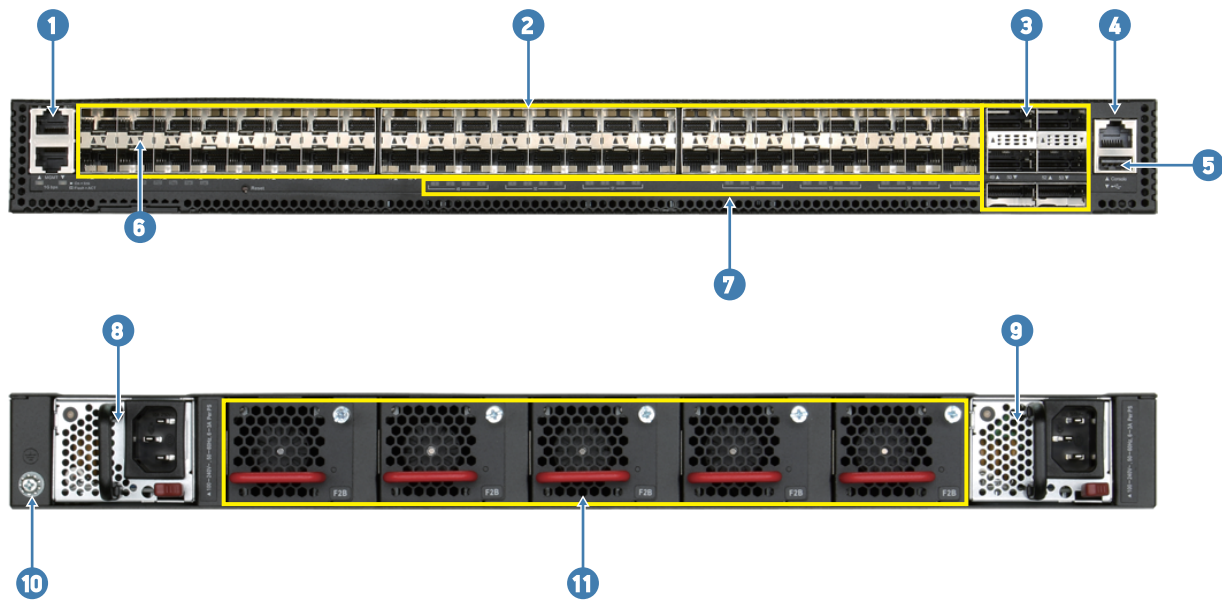


Reduced
CAPEX and OPEX

Free Software Included

onle

Interfaces



Description

- | | |
|------------------------|--------------------------------------|
| 1. Management ports | 7. 40/100 Breakout Mode LEDs |
| 2. 48 x 10G SFP+ Ports | 8. PSU 2 |
| 3. 6 x QSFP28 Ports | 9. PSU 1 |
| 4. Console Port | 10. Grounding Point |
| 5. USB Storage Port | 11. Hot-swappable 4+1 Redundant Fans |
| 6. Port LED Indicators | |

Ports

- Switch Ports:
 - 48 x SFP+ each supporting 10GbE or 1GbE
 - 6 x QSFP28 each supporting 100GbE or 4 x 25GbE
 - Note: When a DAC cable is used in a topology, a link issue may be encountered if the CR4 Auto-Negotiation/Link Training does not turn on. This can be solved by manually enabling CR4 Auto Negotiation/Link Training.
 - Note: Due to a chip limitation, only two QSFP28 ports can support breakout modes at the same time. Ports 49 to 51 and 52 to 54 can only have one port in breakout mode. Currently, the default ports are 51 and 54, which can be changed according to user preference.
- Management Ports on Front Panel:
 - 1 x RJ-45 serial console
 - 1 x RJ-45 100/1000BASE-T management
 - 1 x USB Type A storage port

Key Components

- Switch Silicon: Broadcom BCM56771 Trident III 1.28 Tbps
- CPU Modules:
 - Intel Atom/Denverton C3558 2.2GHz 4 core x86 processor
 - DDR4: 8GB x 2 SO-DIMM
 - SPI Flash: 16 MB x 2
 - Storage: m.2 64GB MLC

Performance

- Switching Capacity: 2.56 Tbps full duplex
- Forwarding Rate: 1 Bpps
- Jumbo frames support up to 9K Bytes
- Packet Buffer Size: 32 MB integrated packet buffer
- Subject to NOS:
- MAC Address: 32 K min./288 K max.
- VLAN IDs: 4 K
- Support 4 K ECMP group
- IPv4: 16 K min./168 K max. host entries; 32 K LPM entries with TCAM-only mode
- IPv6: 8 K min./100 K max. host entries; IPv6/64=16 K TCAM-only mode

Physical and Environmental

- Dimensions (WxDxH): 44.25 x 47.33 x 4.395 cm (17.42 x 18.63 x 1.73 in)
- Weight: 8.815 kg (19.43 lb), with two PSUs installed
- Fans: hot-swappable 4+1 redundant fans
- Operating Temperature: 0°C to 40°C (32°F to 104°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Humidity: 5% to 95% non-condensing

LEDs

- 10G SFP+ Port LEDs: Link Speed, Link Status, Activity
- 100G QSFP28 Port LEDs: Link Status, Activity
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: PSU1, PSU2, Diagnostic, Fans, Locator

Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: open source options, plus commercial NOS offerings.

Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC or -48 VDC
 - Input Voltage: 100-240 VAC at 50-60 Hz. -48 to -72 VDC.
- Max Power: 356 W

Regulatory

- Electromagnetic Compatibility:
 - CE Mark
 - EN55032
 - CISPR 32
 - AS/NZS CISPR 32
 - EN55024
 - CISPR 24
 - CISPR 35
 - EN 61000-3-3
 - EN 61000-3-2
 - FCC Title 47, Part 15, Subpart B Class A
 - VCCI Class A
 - BSMI Class A, CNS 13438
 - CCC
- Safety:
 - EN60950, UL60950
 - EN62368, UL62368
 - CCC
 - BSMI, CNS 14336-1
- Environmental:
 - NEBS GR63-CORE (Pre-test)
 - WEEE Standards: The switches complied with the following WEEE standards: Waste Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)
 - RoHS 2.0 Compliant
 - Taiwan RoHS CNS 15663
 - Country of Origin: Taiwan (TAA Compliant)

Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

About Edgecore Networks Corporation

Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

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Ordering Information

Base model: AS5835-54X; Intel®Atom® C3558 processor; 48-Port 10G SFP+ with 6x100G QSFP28 uplinks; ONIE software installer.

| Model Number | Part Number | PSU | Airflow | Region (power cord) |
|--------------------|---------------|---|-----------------------|---------------------|
| 5835-54X-0-AC-F-US | FP1ZZ5654435A | Dual AC PSUs | port-to-power airflow | N. America |
| 5835-54X-0-AC-B-US | FP1ZZ5654436A | Dual AC PSUs | power-to-port airflow | N. America |
| 5835-54X-0-AC-F-EU | FP1ZZ5654235A | Dual AC PSUs | port-to-power airflow | EU |
| 5835-54X-0-AC-B-EU | FP1ZZ5654236A | Dual AC PSUs | power-to-port airflow | EU |
| 5835-54X-0-AC-F-UK | FP1ZZ5654335A | Dual AC PSUs | port-to-power airflow | UK |
| 5835-54X-0-AC-B-UK | FP1ZZ5654336A | Dual AC PSUs | power-to-port airflow | UK |
| 5835-54X-0-AC-F-JP | FP1ZZ5654540A | Dual AC PSUs | port-to-power airflow | JP |
| 5835-54X-0-AC-B-JP | FP1ZZ5654539A | Dual AC PSUs | power-to-port airflow | JP |
| 5835-54X-0-48V-F | FP1ZZ56540B4A | Dual -48V DC PSUs | port-to-power airflow | |
| 5835-54X-0-48V-B | FP1ZZ56540B5A | Dual -48V DC PSUs | power-to-port airflow | |
| YM-1401ABR | F0TZZ5654024A | 400 W AC Power Supply FRU | port-to-power airflow | |
| YM-1401ACR | F0TZZ5626002A | 400 W AC Power Supply FRU | power-to-port airflow | |
| FAN-1U-1x1E-F | F0TZZ5654009A | FAN Module | port-to-power airflow | |
| FAN-1U-1x1E-B | F0TZZ5654008A | FAN Module | power-to-port airflow | |
| Model Number | Part Number | Description | | |
| 5835-54X-SVC-RTF | REWECECWA011Z | AS5835-54X, Annual Hardware Service, Return-to- Factory, after warranty. 3 year warranty included already with the product, maximum 2 additional years per product. FAN and PSU are excluded. | | |