

Data Center Switch

AS5835-54T



The Edgecore DCS202 switch meets the high-performance, availability, and network-scaling requirements of enterprise and cloud data centers. The DCS202 provides full line-rate switching at Layer 2 or Layer 3 across 48 x 1/10 GbE ports and 6 x 40/100 GbE uplinks. The switch can be deployed either as a top-of-rack switch, or as part of a 40 GbE or 100 GbE distributed spine, forming a non-blocking folded-Clos data center fabric. The switch is rack mountable in a standard 19-inch rack.

The DCS202 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 front-to-back or back-to-front airflow options. The DCS202 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 (NOS) software, including the open source options, plus commercial NOS offerings.

Key Features and Benefits

- 48 x 1/10G RJ-45 IEEE 802.3an switch ports.
- 6 x 100 GbE QSFP28 switch ports, each supporting 40/100 GbE (DAC, 100GBASE SR4/LR4) or 4 x 10/25 GbE (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 front-to-back or back-to-front 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



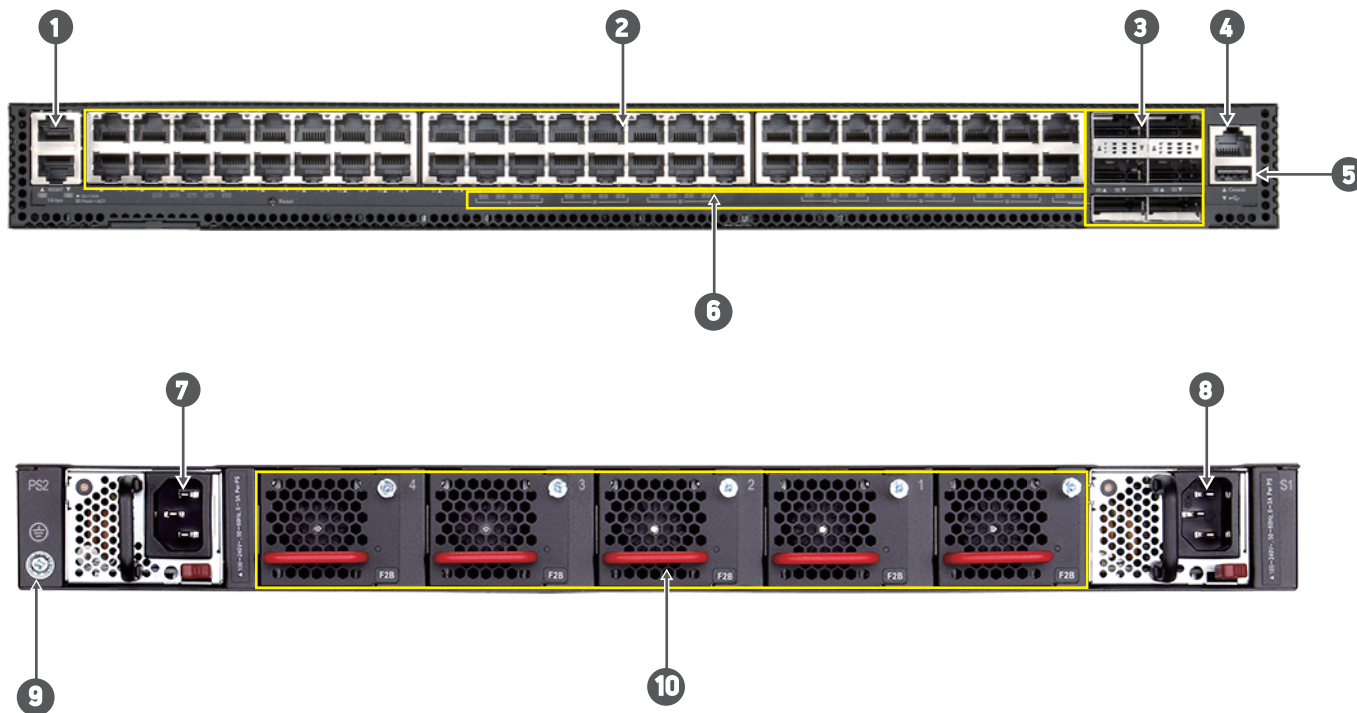
Greater
control



Rapid
innovation



Interfaces



Description

- | | |
|-----------------------------|--------------------------------------|
| 1. Management ports | 6. Port LED indicators |
| 2. 48 x 1/10G RJ-45 ports | 7. PSU 2 |
| 3. 6 x 40/100G QSFP28 ports | 8. PSU 1 |
| 4. Console port | 9. Grounding point |
| 5. USB storage port | 10. Hot-swappable 4+1 redundant fans |

Ports

- Switch Ports:
 - 48 x RJ-45 each supporting 1/10 GbE (IEEE 802.3an)
 - 6 x QSFP28 each supporting 40/100 GbE or 4 x 10/25 GbE
 - 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
 - 2 x RJ-45 100/1000BASE-T management
 - 1 x USB Type A storage port
- Supported Transceivers and Cables:
 - 40GBASE-SR4/LR4
 - 40G-DAC/AOC Cable
 - 100GBASE-SR4/CWDM4/LR4
 - 100G-DAC/AOC Cable
 - Note: More optics and detailed cabling information can be found at www.edge-core.com.

Key Components

- Switch Silicon: Broadcom BCM56771 Trident 3
- CPU Modules:
 - Intel® Atom® 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: 1.08 Tbps (2.16 Tbps) full duplex
- Forwarding Rate: 964.28 Mpps
- 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: 9.59 kg (21.14 lb), with two installed PSUs
- 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.
- Max Power: 323 W

Regulatory

- EMC:
 - EN 55032 Class A
 - EN 61000-3-2
 - EN 61000-3-3
 - AS/NZS Class A
 - ICES-003 Class A
 - FCC Class A
 - VCCI Class A
 - BSMI Class A
 - KC Class A (AC SKU only)
 - EN 55024/55035
 - IEC 61000-4-2/3/4/5/6/8/11
- Safety:
 - UL (CSA 22.2 No 62368-1 & UL62368-1)
 - CB (IEC/EN62368-1)
 - BSMI, CNS 15598-1
- Taiwan RoHS CNS 15663

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: AS5835-54T; Intel® Atom® C3558 processor 4-Core; 48-Port 1/10G RJ-45 with 6 x 40/100G QSFP28 uplinks; ONIE Software Installer.

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
5835-54T-O-AC-F-US	FP1ZZ5654432A	Dual AC PSUs	Front-to-Back Airflow	N. America
5835-54T-O-AC-B-US	FP1ZZ5654434A	Dual AC PSUs	Back-to-Front Airflow	N. America
5835-54T-O-AC-F-EU	FP1ZZ5654233A	Dual AC PSUs	Front-to-Back Airflow	EU
5835-54T-O-AC-B-EU	FP1ZZ5654234A	Dual AC PSUs	Back-to-Front Airflow	EU
5835-54T-O-AC-F-UK	FP1ZZ5654333A	Dual AC PSUs	Front-to-Back Airflow	UK
5835-54T-O-AC-B-UK	FP1ZZ5654334A	Dual AC PSUs	Back-to-Front Airflow	UK
5835-54T-O-AC-F-JP	FP1ZZ5654537A	Dual AC PSUs	Front-to-Back Airflow	JP
5835-54T-O-AC-B-JP	FP1ZZ5654538A	Dual AC PSUs	Back-to-Front Airflow	JP
5835-54T-O-48V-F	FP1ZZ56540B2A	Dual -48V DC PSUs	Front-to-Back Airflow	
5835-54T-O-48V-B	FP1ZZ56540B3A	Dual -48V DC PSUs	Back-to-Front Airflow	
YM-1401ABR	F0TZZ5654024A	400 W AC Power Supply FRU	Front-to-Back Airflow	
YM-1401ACR	F0TZZ5626002A	400 W AC Power Supply FRU	Back-to-Front Airflow	
FAN-1U-1x1E-F	F0TZZ5654009A	Fan Module	Front-to-Back Airflow	
FAN-1U-1x1E-B	F0TZZ5654008A	Fan Module	Back-to-Front Airflow	