

Data Center Switch

Wedge100BF-32X



The Edgecore DCS800 switch is a Top-of-Rack (TOR) or spine switch for high-performance data centers. In a 1RU form factor, the switch provides line-rate L2 and L3 switching across the 32 x QSFP28 ports, supporting up to 32 x 25/40/50/100 GbE connections. The DCS800 can be deployed as a TOR switch supporting 25/50 GbE to servers with 40/50/100 GbE uplinks, or as a spine switch supporting 40/50/100 GbE spine interconnects. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System software.

Key Features and Benefits

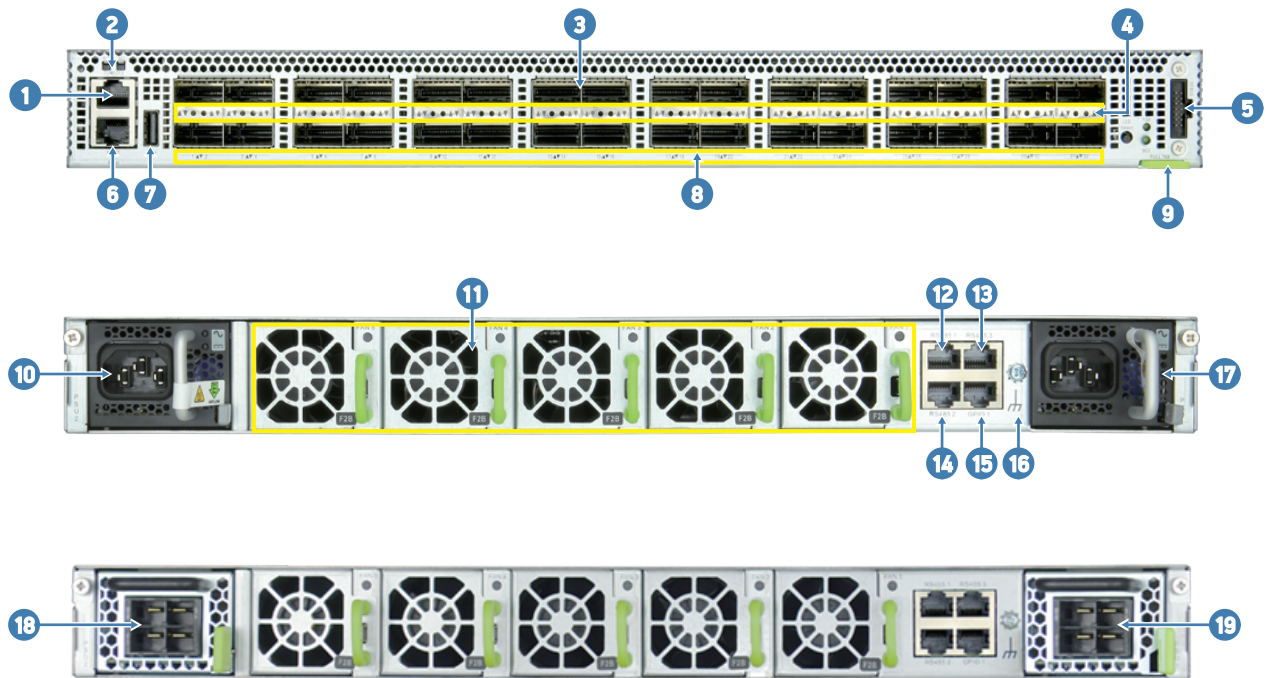
- Cost-effective, open network switch for data center fabric.
- Designed with programmable Tofino switch silicon from Intel Networks.
- Deploys as top-of-rack or spine switch supporting 25 GbE to servers, with 40, 50 or 100 GbE uplinks.
- Deploys as spine switch supporting 40, 50, or 100 GbE ToR and spine interconnects.
- 32 x QSFP28 switch ports, each supporting 1 x 100 GbE, 1 x 50 GbE, or 1 x 40 GbE, or via breakout cables, 4 x 25 GbE or 4 x 10 GbE.
- Layer 2 or Layer 3 switching capacity of 6.4 Tbps (full duplex).
- Supports hot/cold aisle with port-to-power airflow SKU.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant AC or 48V DC PSUs.
- 4+1 redundant, hot-swappable fan modules.
- Switch pre-loaded with diagnostics and with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.
- Compatible with SONiC open source network software.



Software Supported



Interfaces



Description

- | | |
|------------------------------|--------------------------------------|
| 1. Console port | 11. Hot-swappable 4+1 redundant fans |
| 2. System LEDs | 12. RS485 1 (reserved) |
| 3. 32 x 100G QSFP28 ports | 13. RS485 3 (reserved) |
| 4. Port indicators | 14. RS485 2 (reserved) |
| 5. Debug port (UART) | 15. GPIO 1 (reserved) |
| 6. Management port | 16. Grounding screw |
| 7. USB storage port | 17. AC PSU 1 |
| 8. 40/100 breakout mode LEDs | 18. DC PSU 2 |
| 9. Product label | 19. DC PSU 1 |
| 10. AC PSU 2 | |

Ports

- Switch Ports:
32 x QSFP28 ports. Each port supports 1x25/40/50/100 GbE or 4 x 10/25 GbE per port using breakout cables
- Management ports on port side:
1 x RJ-45 serial console
1 x RJ-45 1G BASE-T management
1 x USB Type A storage

Key Components

- Switch Silicon: Intel Tofino BFN-T10-032D (Dual pipeline)
No PHYs, No Retimers
- CPU Modules:
Intel x86 Broadwell-DE, Pentium D-1517
8 GB SO-DIMM DDR4 RAM
16 MB SPI Flash
128 GB M.2 SSD

Performance

- Switching Capacity: 6.4 Tbps
- Forwarding Rate: 4.7 Bpps
- Jumbo frames support up to 9216 Bytes
- Packet Buffer Size: 20 MB integrated packet buffer

Physical and Environmental

- Dimensions (WxDxH): 440 x 509 x 44 mm (17.32 x 20.03 x 1.73 inch)
- Weight: 10.005 kg (20.05 lb)
- 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: 0% to 95% non-condensing
- Operating Altitude: 0 to 10,000 feet

Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with ONL and SONiC software

LEDs

- QSFP28 Port LEDs: Link Status, Activity, Rate
- Ethernet Management Port LED: Link Status, Activity
- Console Port LED: Link Status
- System LEDs: Diagnostic, Locator, PSU and Fan Status

Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC/DC
- Input Voltage: 90 to 240 VAC at 50-60 Hz

Regulatory Compliance

- EMI
CE Mark
EN55022 Class A
EN55024
EN61000-3-2
EN61000-3-3
EN61000-3-11
EN61000-3-12
FCC Part 15 Subpart B Class A
CCC
BSMI
VCCI
- Safety
UL
CSA
- Environmental:
Temperature: IEC 68-2-14
Vibration: IEC 68-2-36, IEC 68-2-6
Shock: IEC 68-2-29
Drop: ISTA 2A
Acoustic Level: 62 dB@ 27°C
- RoHS-6 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: Wedge100BF-32X; 32-Port 100G QSFP28; ONIE software installer.

Model Number	CPU Module	PSU	Airflow	Region (power cord)
Wedge100BF-32X-O-AC-F	Intel® Pentium® D-1517	Dual AC PSUs	port-to-power airflow	
Wedge100BF-32X-O-AC-F-JP	Intel® Pentium® D-1517	Dual AC PSUs	port-to-power airflow	JP
Wedge100BF-32X-O-AC-F-CN	Intel® Pentium® D-1517	Dual AC PSUs	port-to-power airflow	CN
Wedge100BF-32X-O-AC-F-US	Intel® Pentium® D-1517	Dual AC PSUs	port-to-power airflow	US
Wedge100BF-32X-O-AC-F-UK	Intel® Pentium® D-1517	Dual AC PSUs	port-to-power airflow	UK
Wedge100BF-32X-O-AC-F-EU	Intel® Pentium® D-1517	Dual AC PSUs	port-to-power airflow	EU
Wedge100BF-32X-O-DC-F	Intel® Pentium® D-1517	Dual DC PSUs	port-to-power airflow	

Accessories

Model Number	Description	Airflow
Wedge100BF-Fan-F	Fan module	port-to-power airflow
PFE600-12-054NA	AC Power supply, 600 W	port-to-power airflow
PFE1100-12-054ND	DC Power supply, 1100 W	port-to-power airflow