

Data Center Switch

Wedge100BF-32QS



The Edgecore DCS801 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 40/100 GbE connections. The DCS801 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 ToR and 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, including the open source option and commercial NOS offerings.

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 or 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 or 1 x 40 GbE, or via breakout cables 100 GbE to 4 x 25 SGbE or 2 x 50 GbE or 40 GbE to 4 x 10 GbE.
- Layer 2 or Layer 3 forwarding of 6.4 Tbps (full duplex).
- Supports port-to-power airflow SKU.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant AC.
- 5 redundant, hot-swappable fan modules.
- Switch pre-loaded with diagnostics and Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.
- Quad-pipe programmable packet processing pipeline for 6.4 Tbps total bandwidth.

Model Number	CPU	ComE
Wedge100BF-32QS	Xeon D-1548 (8 cores), 48GB, 2.0 GHz	Portwell B7000G



Freedom
of choice



Greater
control



Rapid
innovation

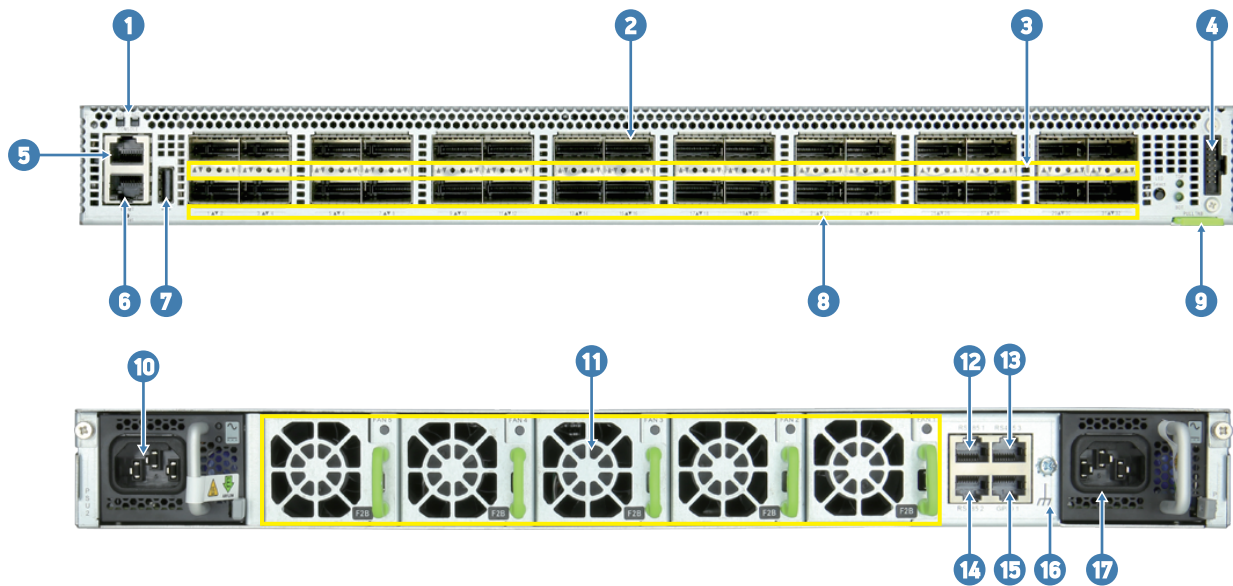


Reduced
CAPEX and OPEX

Free Software Included



Interfaces



Description

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

Ports

- Switch ports:
32 x QSFP28 ports. Each Port supports 1 x 40/100 GbE or 4 x 10/25 GbE or 2 x 50 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-T10-032Q Switch
- CPU Modules:
Intel x86 Xeon D-1548 8 core
48GB SI-DIMM
2TB SSD TLC

Performance

- Switching Capacity: 6.4 Tbps (full duplex)
- 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)
- Weight
10.005 kg (20.05 lb)
- Fans: 5 hot-swappable 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

LEDs

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

Power

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

Regulatory Compliance

- FCC Part 15 Subpart B Class A

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-32QS; Intel® Xeon® D-1548; 32-Port 100G QSFP28; ONIE software installer.

Model Number	Part Number	PSU	Airflow	Region (power cord)
Wedge100BF-32QS-O-AC-F-JP	FOPEC7632501S	Dual AC PSUs	port-to-power airflow	JP
Wedge100BF-32QS-O-AC-F-CN	FOPEC7632701S	Dual AC PSUs	port-to-power airflow	CN
Wedge100BF-32QS-O-AC-F-US	FOPEC7632401S	Dual AC PSUs	port-to-power airflow	US
Wedge100BF-32QS-O-AC-F-UK	FOPEC7632301S	Dual AC PSUs	port-to-power airflow	UK
Wedge100BF-32QS-O-AC-F-EU	FOPEC7632201S	Dual AC PSUs	port-to-power airflow	EU