

## 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

- 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.
- 4+1 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.



Freedom  
of choice



Greater  
control



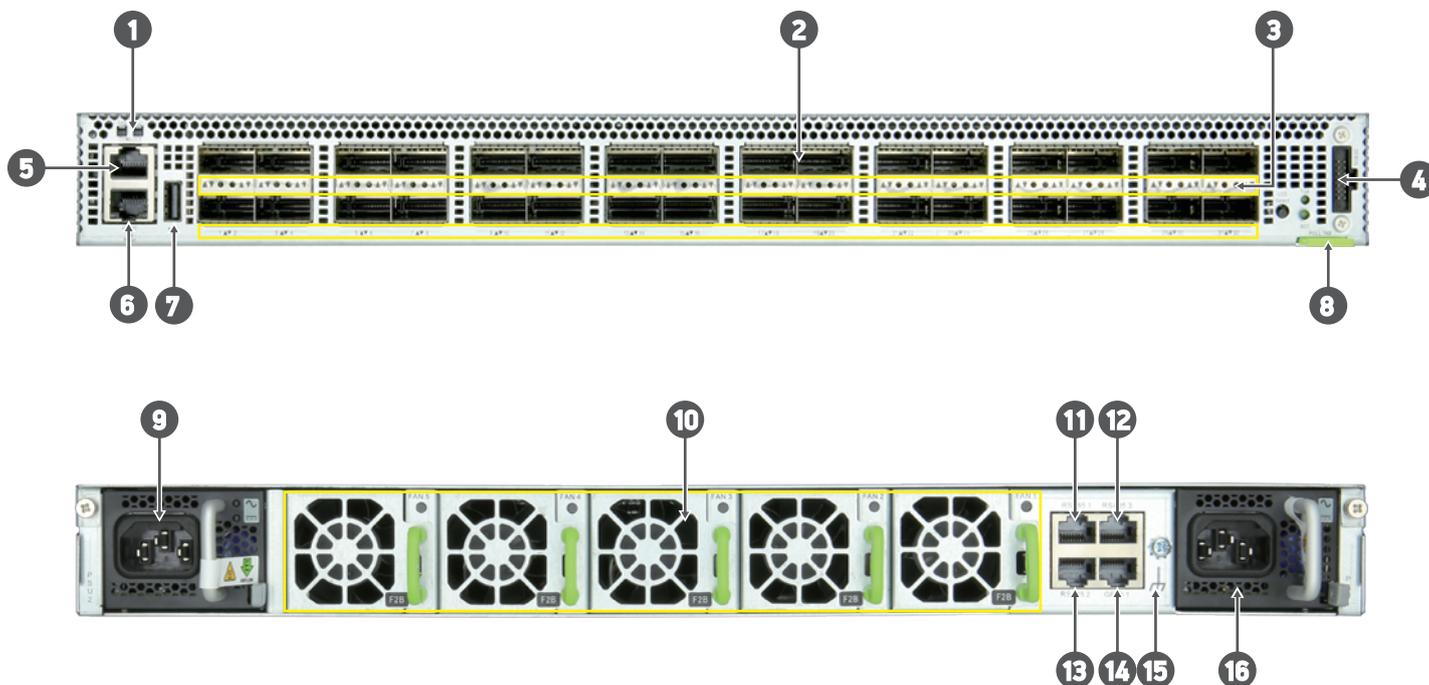
Rapid  
innovation



Reduced  
CAPEX and OPEX



## Interfaces



### Description

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

## 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
- Supported Transceivers and Cables:  
40GBASE-SR4/LR4  
40G-DAC/AOC Cable  
100GBASE-SR4/LR4/CWDM4  
100G-DAC/AOC Cable
- Note: More optics and detailed cabling information can be found at [www.edge-core.com](http://www.edge-core.com).

## Key Components

- Switch Silicon: Intel Tofino BFN-T10-32Q (Quad pipeline)
- CPU Modules:  
Intel® Xeon® Processor 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: 4+1 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
- Compatible with the following NOS options: open source options, plus commercial NOS offerings

## 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](http://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](http://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](http://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

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**Base Model: Wedge100BF-32QS; Intel® Xeon® D-1548 8-Core; 32-Port 100G QSFP28; ONIE Software Installer.**

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
Wedge100BF-32QS-0-AC-F-JP	FOPEC7632501S	Dual AC PSUs	Port-to-Power Airflow	JP
Wedge100BF-32QS-0-AC-F-CN	FOPEC7632701S	Dual AC PSUs	Port-to-Power Airflow	CN
Wedge100BF-32QS-0-AC-F-US	FOPEC7632401S	Dual AC PSUs	Port-to-Power Airflow	US
Wedge100BF-32QS-0-AC-F-UK	FOPEC7632301S	Dual AC PSUs	Port-to-Power Airflow	UK
Wedge100BF-32QS-0-AC-F-EU	FOPEC7632201S	Dual AC PSUs	Port-to-Power Airflow	EU