

## 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, 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, 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 Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.



Freedom  
of choice



Greater  
control



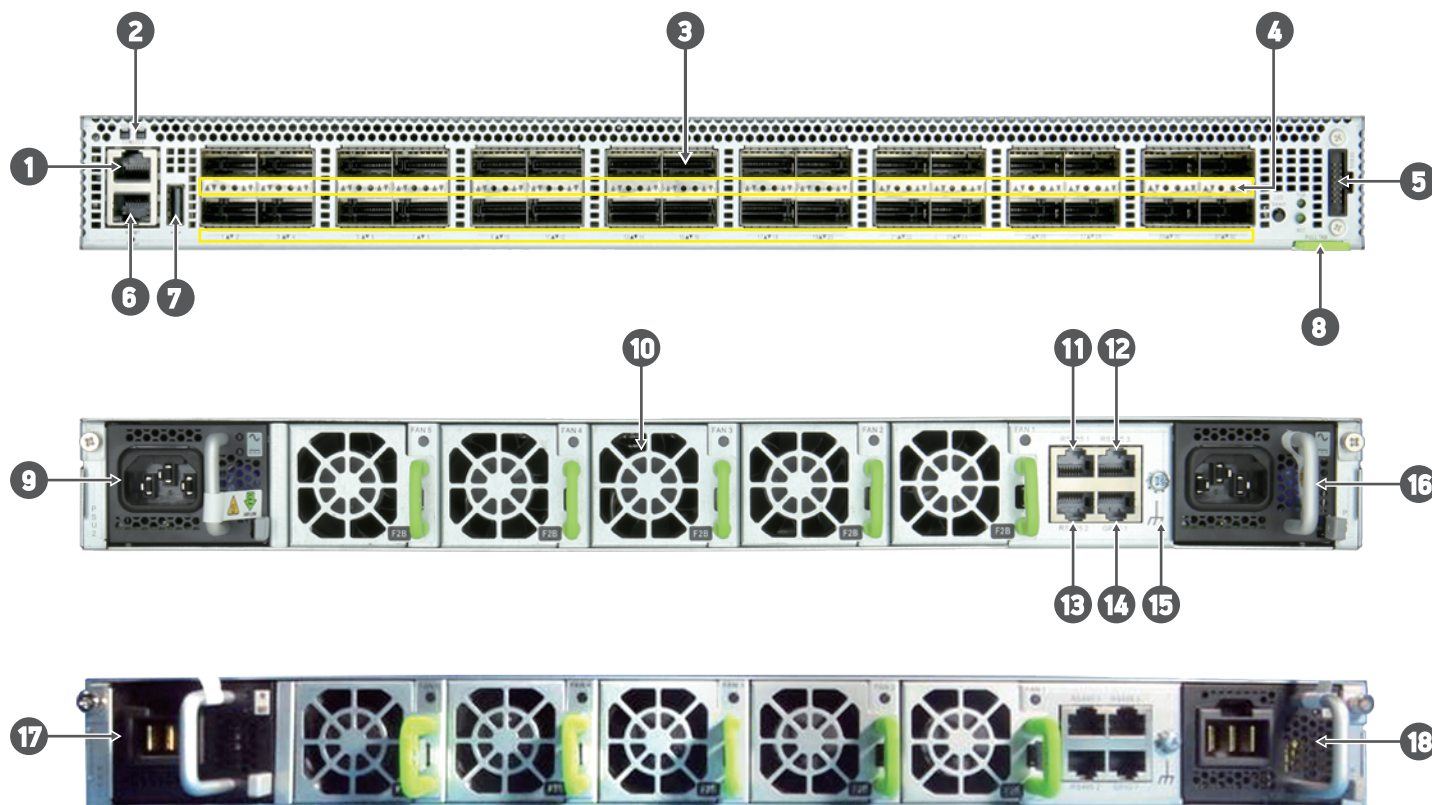
Rapid  
innovation



Reduced  
CAPEX and OPEX



## Interfaces



### Description

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

## 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
- 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-T10-032D (Dual pipeline)
  - No PHYs, No Retimers
- CPU Modules:
  - Intel® 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 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
- 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](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

**Base Model: Wedge100BF-32X; Intel® Pentium® D-1517; 32-Port 100G QSFP28; ONIE Software Installer.**

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
Wedge100BF-32X-O-AC-F-JP	FP3ZZ7632507A	Dual AC PSUs	Port-to-Power Airflow	JP
Wedge100BF-32X-O-AC-F-US	FP3ZZ7632413A	Dual AC PSUs	Port-to-Power Airflow	US
Wedge100BF-32X-O-AC-F-UK	FP3ZZ7632307A	Dual AC PSUs	Port-to-Power Airflow	UK
Wedge100BF-32X-O-AC-F-EU	FP3ZZ7632207A	Dual AC PSUs	Port-to-Power Airflow	EU
Wedge100BF-32X-O-AC-F-CH	FP3ZZ7632704A	Dual AC PSUs	Port-to-Power Airflow	CN
Wedge100BF-32X-O-48V-F	FP3EC7632002A	Dual DC PSUs	Port-to-Power Airflow	

### Accessories

Model Number	Part Number	Description	Airflow
Wedge100BF-FAN-F	F0TEC7632000H	Fan module	Port-to-Power Airflow
PFE600-12-054NA	F0TZZ7632009A	AC Power supply, 600 W	Port-to-Power Airflow
PFE1100-12-054ND	F0TEC7632000A	DC Power supply, 1100 W	Port-to-Power Airflow