

# Wedge100BF-32X/65X Switch

## 100GbE Data Center Switch

### Bare-Metal Hardware



#### Product Overview

The Edgecore Wedge100BF-32X/65X switch is a Top-of-Rack (TOR) or spine switch for high-performance data centers. In a 2RU form factor, the switch provides line-rate L2 and L3 switching across the 65 x QSFP28 ports, supporting up to 32/65 x 25/40/50/100 GbE connections. The Wedge100BF-32X/65X 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, bare-metal switch infrastructure for data center fabric.
- Designed with programmable Tofino switch silicon from Barefoot 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.
- 32/65 x QSFP28 switch ports, each supporting 1 x 100 GbE or 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 forwarding of 3.2/6.4 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.
- 5/10 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.

Data Center Switch



## Features

### Ports

Switch Ports:  
32/65 x QSFP28 ports. Each Port supports 1x25/40/50/100 GbE or 4 x 10/25 GbE per port using splitter 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 : Barefoot Tofino  
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: 3.2/6.4 Tbps  
Forwarding Rate: 4.7/9.5 Bpps  
Jumbo frames support up to 9216 Bytes  
Packet Buffer Size: 22 MB integrated packet buffer

### Physical and Environmental

Dimensions (WxDxH):  
32X: 509 x 440 x 44 mm (20.03 x 17.32 x 1.73)  
65X: 509 x 440 x 87 mm (20.03 x 17.32 x 3.42)  
Weight  
32X: 10.005kg (20.05 lb)  
65X: 14.275kg (31.47 lb)  
Fans: hot-swappable 5/10 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

QSFP 28 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  
Input Voltage: 90 to 240 VAC at 50-60 Hz

### Regulatory

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  
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 your country.

### For More Information

To find out more about Edgecore Networks Corporation product 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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# Wedge100BF-32X/65X Product Specifications

www.edge-core.com

## Features

### Base Model: Wedge100BF-32X; 32-Port 100G QSFP28; ONIE software installer

Model Number	P/N	Airflow	Description	UPC/EAN	Region
Wedge100BF-32X-O-AC-F-US	FP3ZZ7632413A	port-to-power airflow	Wedge100BF-32X , 32 port 100G QSFP28 switch, BAREFOOT Tofino 3.3T, Intel Broadwell DE CPU, dual AC PSU	662698609011	N. America
Wedge100BF-32X-O-AC-F-EU	FP3ZZ7632207A	port-to-power airflow	Wedge100BF-32X , 32 port 100G QSFP28 switch, BAREFOOT Tofino 3.3T, Intel Broadwell DE CPU, dual AC PSU	4712687015531	Europe
Wedge100BF-32X-O-AC-F-UK	FP3ZZ7632307A	port-to-power airflow	Wedge100BF-32X , 32 port 100G QSFP28 switch, BAREFOOT Tofino 3.3T, Intel Broadwell DE CPU, dual AC PSU	4712687015548	UK
Wedge100BF-32X-O-AC-F-JP	FP3ZZ7632507A	port-to-power airflow	Wedge100BF-32X , 32 port 100G QSFP28 switch, BAREFOOT Tofino 3.3T, Intel Broadwell DE CPU, dual AC PSU	4712687015555	Japan
Wedge100BF-32X-O-AC-F-CH	FP3ZZ7632704A	port-to-power airflow	Wedge100BF-32X , 32 port 100G QSFP28 switch, BAREFOOT Tofino 3.3T, Intel Broadwell DE CPU, dual AC PSU	4712687018389	China

### Base Model: Wedge100BF-65X; 65-Port 100G QSFP28; ONIE software installer

Model Number	P/N	Airflow	Description	UPC/EAN	Region
Wedge100BF-65X-O-AC-F-US	FP3ZZ7664400A	port-to-power airflow	Wedge100BF-65X, 65 port 100G QSFP28 switch, BAREFOOT Tofino 6.5T, Intel Broadwell DE CPU, dual AC PSU	662698609028	N. America
Wedge100BF-65X-O-AC-F-EU	FP3ZZ7664200A	port-to-power airflow	Wedge100BF-65X, 65 port 100G QSFP28 switch, BAREFOOT Tofino 6.5T, Intel Broadwell DE CPU, dual AC PSU	4712687015494	Europe
Wedge100BF-65X-O-AC-F-UK	FP3ZZ7664300A	port-to-power airflow	Wedge100BF-65X, 65 port 100G QSFP28 switch, BAREFOOT Tofino 6.5T, Intel Broadwell DE CPU, dual AC PSU	4712687015500	UK
Wedge100BF-65X-O-AC-F-JP	FP3ZZ7664500A	port-to-power airflow	Wedge100BF-65X, 65 port 100G QSFP28 switch, BAREFOOT Tofino 6.5T, Intel Broadwell DE CPU, dual AC PSU	4712687015517	Japan
Wedge100BF-65X-O-AC-F-CH	FP3ZZ7664700A	port-to-power airflow	Wedge100BF-65X, 65 port 100G QSFP28 switch, BAREFOOT Tofino 6.5T, Intel Broadwell DE CPU, dual AC PSU	4712687018396	China