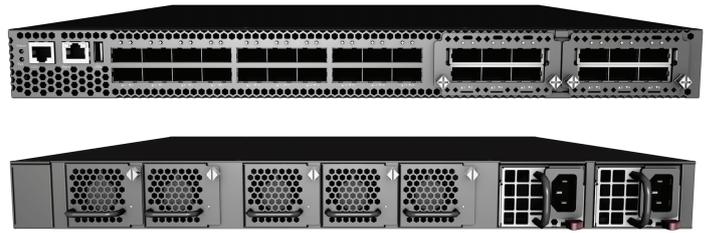


AS6700-32X **40GbE Data Center Switch** **Bare-Metal Hardware**



Product Overview

The Edge-Core AS6700-32X switch is a Top-of-Rack (TOR) or spine switch for high-performance data centers. In a compact 1RU form factor, the switch provides line-rate L2 and L3 switching across up to 32 x QSFP ports, supporting up to 32 x 40 GbE connections or 104 x 10 GbE connections. The AS6700-32X can be deployed as a TOR switch supporting 10 GbE or 40 GbE server connections, or as a spine switch, supporting 10 GbE or 40 GbE spine interconnects. The switch provides 20 fixed QSFP ports and two module slots, each capable of supporting a 6 x QSFP option module or a future NPU module for application processing. The AS6700-32X is a bare-metal switch loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible independent switchOS offerings.

Key Features and Benefits

- Cost-effective, bare-metal switch infrastructure for data center fabric.
- Up to 32 x 40GbE ports in compact 1RU form factor.
- Modular design allowing cost-effective build-out of an infrastructure with switching capacity added as required.
- 20 x QSFP switch ports, each supporting 40 GbE or 4 x 10 GbE via breakout cables.
- Two module slots, each supporting 6 x QSFP module or future NPU processing module.
- Layer 2 or Layer 3 forwarding of 2.56 Tbps full duplex.
- Supports hot/cold aisle with port-to-power and power-to-port airflow SKUs.
- All ports on front; PSUs and fans on rear.
- Hot-swappable, load-sharing, redundant AC PSUs. 48VDC* option.
- 4+1 redundant, hot-swappable fans.
- Energy Efficiency: 267 W typical power consumption.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible independent SwitchOS software.
- Compatible with Cumulus®Linux® r2.0 and later SwitchOS software from Cumulus Networks™.

Features

Ports

Switch Ports:
20 QSFP fixed ports: 40 GbE or 4 x 10 GbE per port
2 expansion module slots, for optional modules:
6 QSFP: 40 GbE or 4 x 10 GbE per port
NPU module (future)
Total switch capacity: 32 x 40 GbE; or 104 x 10 GbE
Management ports on port side:
1 x RJ-45 serial console
1 x RJ-45 100/1000BASE-T management port
1 x USB Type A storage port

Key Components

Switch Silicon: Broadcom BCM56850 Trident II 1.28 Tbps
CPU Module: Freescale P2041 quad-core 1.5GHz in AS6700
Freescale P2020 dual-core 1.2GHz in AS6701
2GB DDR3 SDRAM ECC memory
8 MB NOR Flash, 2 GB NAND Flash
8 GB SD Card

Performance

Switching Capacity: 2.56 Tbps full duplex, with packets>200 bytes
Forwarding Rate: 1.44 Bpps
MAC Addresses: 320K
VLAN IDs: 4 K
Jumbo frames (9216 Bytes)
L3 Routes IPv4 64K, IPv6 20K
Packet Buffer Size: 12 MB shared buffer pool
Latency (RFC2544): 600 to 720 ns cut thru

LEDs

40G QSFP Port LEDs: Link Status, Activity
Ethernet Management Port LED: Link Status, Activity
Console Port LED: Link Status
System LEDs: Diagnostic, Locator

Supported Optics and Cables

QSFP Ports:
40GBASE-CR4 DAC; 0.5 m to 7 m; passive and active
40GBASE-CR4 DAC to 4 x SFP+ 10GBASE-CR DAC; 0.5 to 7 m
40GBASE-SR4: Up to 100 m over OM3 MMF, 150 m over OM4 MMF
40GBASE-SR4 to 4 x 10GBASE-SR: 100 m over OM3, 150 m OM4
40GBASE-LR4: Up to 10 km over SMF

Software

Switch is loaded with Open Network Install Environment (ONIE) software installer
Compatible with the following switchOS software:
Cumulus Linux r2.0 or later

Physical and Environmental

Dimensions (WxDxH): 440 x 470 x 44 mm (17.3 x 18.5 x 1.73 inches)
Weight: 8.4 kg (18.52 lbs), total with 2 modules
Fans: 4+1 redundant, hot-swappable
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: 5% to 95% non-condensing

*Future Release

Power

PSUs: 2 redundant, load-sharing, hot-swappable AC or 48VDC*
Input Voltage: 90 to 264 VAC at 50-60 Hz. -48 to -72 VDC.
Input Current: Max 6A @100/120 VAC, 3 A @200/240 VAC, 10 A @-72 VDC
PSU Efficiency: Up to 93% for AC PSUs
Max Power: 315 W, line-rate, 32 x 40G SR4, AC
Typical Power: 267 W, line-rate, 32 x 40G DAC, AC

Regulatory

EMI
CE Mark (EN55022 Class A)
FCC Part 15 Class A
VCCI
Safety
CB, EN 60950
UL/CUL
Environmental:
Temperature: IEC 68-2-14
Drop: ISTA 2A
RoHS-6 Compliant

Warranty

Please check www.edge-core.com for the warranty terms in your country. The warranty provides return-to-factory hardware replacement for a three year period in North America.

For More Information

To find out more about Edge-Core Networks products and solutions, visit www.edge-core.com

About Edge-Core Networks

Edge-Core Networks is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edge-Core Networks delivers the software and systems that transform the way the world connects. Edge-Core Networks serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edge-Core Networks is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edge-Core data center switches are developed and manufactured by Accton.

To purchase Edge-Core solutions, please contact your Edge-Core Network representatives at +886 3 563 8888 (HQ) or +1 (877) 828-CORE (877-828-2673) or authorized resellers.

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Ordering Information

6701-32X-O-AC-F-US	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, port-to-power airflow, dual 6-port 40G module, P2020 CPU Module, N. America
6701-32X-O-AC-B-US	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, power-to-port airflow, dual 6-port 40G module, P2020 CPU Module, N. America
6701-32X-O-AC-F-EU	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, port-to-power airflow, dual 6-port 40G module, P2020 CPU Module, Europe
6701-32X-O-AC-B-EU	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, power-to-port airflow, dual 6-port 40G module, P2020 CPU Module, Europe
6701-32X-O-AC-F-UK	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, port-to-power airflow, dual 6-port 40G module, P2020 CPU Module, UK
6701-32X-O-AC-B-UK	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, power-to-port airflow, dual 6-port 40G module, P2020 CPU Module, UK
6701-32X-O-AC-F-JP	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, port-to-power airflow, dual 6-port 40G module, P2020 CPU Module, Japan
6701-32X-O-AC-B-JP	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, power-to-port airflow, dual 6-port 40G module, P2020 CPU Module, Japan
6701-20X-O-AC-F-US	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, port-to-power airflow, P2020 CPU Module, N. America
6701-20X-O-AC-B-US	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, power-to-port airflow, P2020 CPU Module, N. America
6701-20X-O-AC-F-EU	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, port-to-power airflow, P2020 CPU Module, Europe
6701-20X-O-AC-B-EU	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, power-to-port airflow, P2020 CPU Module, Europe
6701-20X-O-AC-F-UK	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, port-to-power airflow, P2020 CPU Module, UK
6701-20X-O-AC-B-UK	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, power-to-port airflow, P2020 CPU Module, UK
6701-20X-O-AC-F-JP	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, port-to-power airflow, P2020 CPU Module, Japan
6701-20X-O-AC-B-JP	AS6700-32X 20-Port 40GbE QSFP switch, ONIE software installer, dual AC PSUs, power-to-port airflow, P2020 CPU Module, Japan
6700-32X-MOD-40G	AS6700-32X option module, 6x40G QSFP ports
PSU-AC-400-F	400W AC Power Supply FRU, port-to-power airflow, no power cord
PSU-AC-400-B	400W AC Power Supply FRU, power-to-port airflow, no power cord
FAN-1U-1x1B-F	Fan FRU, port-to-power airflow
FAN-1U-1x1B-B	Fan FRU, power-to-port airflow
CBL-PWR-US	AC Power Cable - US (125V/13A, 1830mm, C13) - required with Power Supply FRUs only
CBL-PWR-EU	AC Power Cable - EU (250V/10A, 1830mm, C13) - required with Power Supply FRUs only
CBL-PWR-UK	AC Power Cable - UK (250V/10A, 1830mm, C13) - required with Power Supply FRUs only
CBL-PWR-JP	AC Power Cable - JP (125V/12A, 2400mm, C13) - required with Power Supply FRUs only
6701-32X-SVC-RTF	AS6700-32X Annual Hardware Service, Return-to-Factory