ComX Computers
Product Specification Sheet

EC-AS6701-32X-C-AC-F

Edge-corE 20x 40G QSFP+, 2x 6 Port 40G QSFP+ module,Cumulus Linux 1 Yr Support, Front to Back flow

Product Overview

Edge-corE 20x 40G QSFP+, 2x 6 Port 40G QSFP+ module,Cumulus Linux 1 Yr Support, Front to Back flow,The AS6701-32X-C can be deployed as a TOR switch supporting 10GbE or 40GbE server connections, or as a spine switch, supporting 10GbE or 40GbE spine interconnects



Specifications

Overview:

The Edge-Core AS6701-32X-C is a high-performance standard Data Center switch for top-of-rack (TOR) or spine applications. In a compact IRU form factor, this switch provides line-rate L2 and L3 switching across up to 32 QSFP+ ports, supporting up to 32x 40GbE connections or 104 10GbE connections. The AS6701-32X-C can be deployed as a TOR switch supporting 10GbE or 40GbE server connections, or as a spine switch, supporting 10GbE or 40GbE spine interconnects. The switch provides 20 fixed QSFP+ ports and two modular slots, each capable of supporting 6 x QSFP+ ports or a future NPU module for deep packet inspection, traffic analysis or other applications. The AS6701-32X-C comes with Cumulus Linux - the leading OS for data center switching systems.

Features:

Cumulus Linux

- Cumulus Linux is a Linux operating system that runs on top of industry-standard networking hardware. It is a software-only solution that accelerates robust networking functions at wire rate on a variety of platforms and is the ultimate choice when it comes to flexibility and innovation, enabling the best-of-breed hardware ecosystem and best-of-breed application ecosystem. Cumulus Linux is Linux. It is not just based on Linux, it is Linux and offers the entirety of the Linux experience on networking hardware. Existing open source and commercial Linux applications run natively on industry-standard switches. New applications can be developed and integrated rapidly, enabling innovation cycles on par with software and application cycles.

Modern Data Center Networking with Cumulus Linux

- Cumulus Linux is first and foremost a networking-focused Linux distribution. It enables modern data center architectures while providing a transition path for traditional data center architectures.
- High-capacity IP fabrics enable scale, simplicity and rapid evolution
- Automation: zero touch install and zero touch provisioning simplify operations
- Modern data center orchestration, monitoring and troubleshooting provide operational efficiencies
- Prescriptive Topology Manager simplifies operations from physical/logical topology consistency to simplified configuration based on a user-specified network graph
- Overlay networks enable flexibility and rapid provisioning of multi-tenant network

Broad Application Ecosystem

- Cumulus Linux is the foundation for a rich application ecosystem. Being Linux, it is a platform that can leverage existing Linux applications, and it is the foundation for development and rapid integration of third party applications.Modern data center network orchestration tools such as Ansible, CFEngine, Chef and Puppet work on Cumulus Linux. Modern data center monitoring tools such as collectd and Ganglia work on Cumulus Linux. Leverage scores of applications across compute and network from the more than 40,000 Debian app

Operating System Install & Upgrade

- Server-style upgrade/patching across minor releases, server-style process restart/ termination. Support for zero touch OS installation using ONIE loaded on industrystandard switches.

Extensibility

- Linux extensibility - Any language supported in Linux today, including scripting with Bash, Python, Perl, Ruby

Hardware Management

- The switch hardware abstraction layer accelerates Linux kernel networking constructs in hardware, including the routing table, ARP table, bridge FDB, ip/ebtables, bonds,VLANs, VXLAN bridges. Hardware management also includes jumbo frames support and environmental management

Layer 3 Features

- Enhanced Quagga IPv4/v6 routing suite including OSPFv2, OSPFv3, BGPv4/v6,Equal-Cost Multi-Path (ECMP). Bidirectional Forwarding Detection (BFD)

Layer 2 Features

- Bridge management with MSTPd including STP (IEEE 802.1d), RSTP (IEEE 802.1w),PVRST, PVST, bridge assurance, BPDU guard, BPDU filter. VLAN trunks (IEEE802.1q), LACP (IEEE 802.3ad), unicast/broadcast storm control, LLDP, CDP, IPv6neighbor discovery, IPv6 route advertisement. Host HA (through Host-MLAG).IGMPv2/v3 snooping, MLDv1/v2 snooping. Virtual Router Redundancy (VRR).

Network Virtualization

- VXLAN support*, L2 gateway services integration with VMware NSX *, Lightweight Network Virtualization (LNV)*

Management

- Native Linux management tools such as OpenSSH, SCP, FTPS. Automated Install/Upgrade: zero touch install and zero touch provisioning. DHCP, v4/v6 DHCP relays.Authentication with LDAP, authorization with sudo NTP. Advanced management/orchestration through third party add-on packages.

Monitoring & Troubleshooting

- Traditional monitoring with SNMPv2/v3 and network-specific MIB, analytics with SPAN,ERSPAN, ACL-based counters, DOM

optics data, thermal sensors, real time queuedepth and buffer utilization reporting. Troubleshooting with dnsutils, syslog, reachability tools, hardware inventory, log fles, server-style filesystem, and merchant silicon specific commands.A dvanced troubleshooting and ease of use with Prescriptive Topology Manager.

Security

- Access control lists (ACLs) L2-L4 classification through ip/ebtables, CPU protection through hardware enforced ACL-based rate limiting.

QoS

- Classification based on Class of Service (CoS) (IEEE 802.1p) or DSCP (queuing,scheduling (DWRR and Strict Priority), buffer allocation)*. Ingress ACL-based classification/policing.

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 40GbE or 4 x 10GbE via breakout cables.
- Two module slots, each supporting 6 x QSFP module or future NPU processing module.
- Layer 2 or Layer 3 forwarding of 2.56Tbps 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 or -48VDC PSUs.
- 4+1 redundant, hot-swappable fans.
- Energy Efficiency: 267W typical power consumption.

Specifications:

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Specifications	
Product Code	EC-AS6701-32X-C-AC-F
Ports	
20 QSFP fixed ports	40GbE or 4 x10 GbE per port
2 expansion module slots, for optional modules	40GbE or 4 x 10GbE per port
6 QSFP	NPU module (future)
	32 x 40GbE; or 104 x 10GbE
Total switch capacity	1 x RJ-45 serial console
Management ports on port side	1 x RJ-45 100/1000BASE-T management port
	1 x USB Type A storage por
Key Components	
Switch Silicon	Broadcom BCM56850 Trident II 1.28Tbps

CPU Module	Freescale P2020 dual-core 1.2GHz
	2GB DDR3 SDRAM ECC memory
	64MB NOR Flash, 2GB NAND Flash
	8GB SD Card
Performance	
Switching Capacity	2.56Tbps full duplex, with packets>200bytes
Forwarding Rate	1.44Bpps
MAC Addresses	320K
VLAN IDs	4K
	Jumbo frames (9216Bytes)
	L3 Routes IPv4 64K, IPv6 20K
Packet Buffer Size	12MB shared buffer pool
Latency (RFC2544)	600 to 720ns 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-0.5m to 7m-passive and active
40GBASE-SR4	40GBASE-CR4 DAC to 4 x SFP+ 10GBASE-CR DAC-0.5m to 7m
40GBASE-SR4 to 4 x 10GBASE-SR	Up to 100m over OM3 MMF, 150m over OM4 MMF
40GBASE-LR4	100m over OM3, 150m OM4
	Up to 10km over SMF
Software	Preloaded with Cumulus Linux. License cost included in the price
	for the specific term described in the SKU.
Physical and Environmental	
Dimensions (WxDxH)	440 x 470 x 44mm (17.3 x 18.5 x 1.73inches)
Weight	8.4kg (18.52lbs), total with 2 modules
Fans	4+1 redundant, hot-swappable
Operating Temperature	0 degreesC to 40 degreesC (32 degreesF to 104 degreesF)
Storage Temperature	-40 degreesC to 70 degreesC (-40 degreesF to 158 degreesF)
Operating Humidity	5% to 95% non-condensing
Power	
PSUs	2 redundant, load-sharing, hot-swappable AC or 48VDC
Input Voltage	90 to 264VAC at 50-60Hz. -48 to -72VDC.
Input Current	Max 6A @100/120VAC, 3A @200/240VAC, 10 A @-72VDC

PSU Efficiency	Up to 93% for AC PSUs
Max Power	315W, line-rate, 32 x 40G SR4, AC
Typical Power	267W, line-rate, 32 x 40G DAC, AC

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/EC-AS6701-32X-C-AC-F-Edge-corE-20x-40G-QSFP-2x-6-Port-40G-QSFP-module-Cumulus-Linux-p-150939.php

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