CELL SITE ROUTER
AS7515-24X

The Edgecore CSR430 is an open disaggregated cell site gateway platform that provides a combination of 1/10/25 Gbps and 40/100 Gbps interfaces. Utilizing powerful Qumran family merchant silicon and an Intel Atom x86 processor, the device provides optimized performance for service provider access and aggregation networks.

The CSR430 has a temperature-hardened design and is able to operate at a wide operational temperature range from -40˚C to 65˚C. The redundant/hot swappable power modules and 4+1 high-efficiency modular fans provide high availability and hassle-free maintenance for mission-critical applications, making the hardware an ideal choice for current LTE and 5G mobile xhaul network solutions.

The CSR430 is pre-installed with ONIE (Open Network Install Environment) to provide freedom of choice and flexibility for preferred NOS (Network Operating System) integration with user applications.
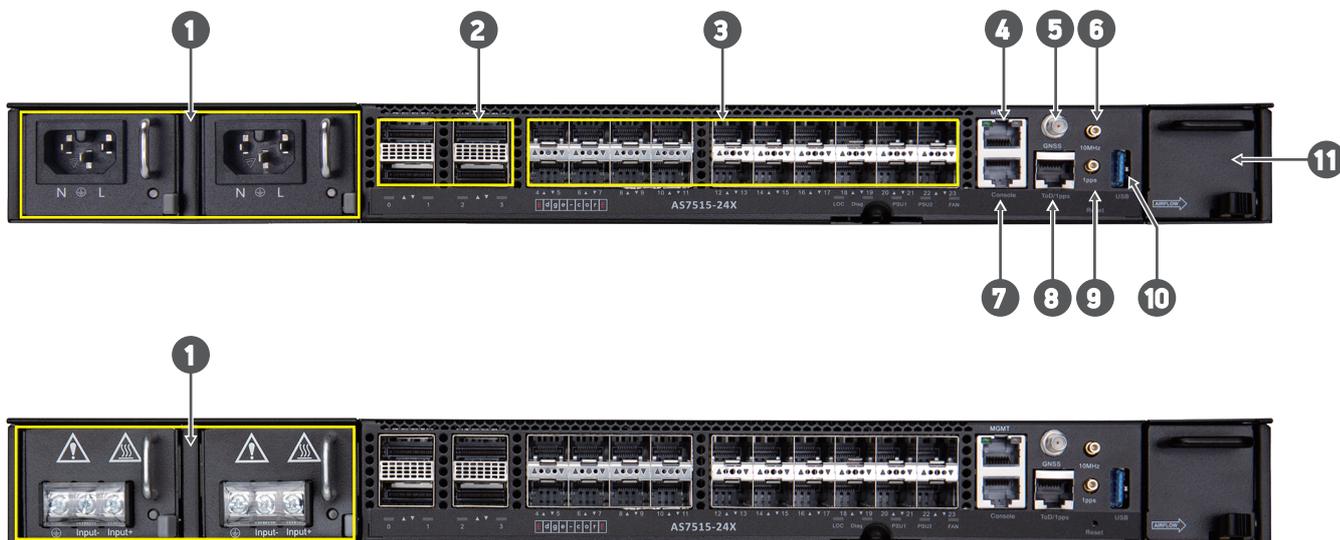
Key Features and Benefits

■ Open disaggregated cell site gateway for mobile fronthaul, backhaul, and O-RAN networks.
■ 20 x 25G SFP28 and 4 x 100G QSFP28 fixed ports.
■ 2GB GDDR6 Deep packet buffer
■ Temperature harden -40°C to 65°C compact 1U design
■ 5G ready eCPRI, TSN and SRv6 enable
■ Precise Time synchronization with GNSS, IEEE1588v2 and SyncE at Class C accuracy
■ Latest 16nm ASIC with better power efficiency
■ Rack mountable in standard 19" racks.
■ All ports, PSUs and fan modules are front access.
■ Hot-swappable, load sharing, redundant AC/48VDC PSUs.
■ Maintenance activity to replace PSUs and FANs can be done from the front panel without remove the product from rack.
■ Side to side airflow
■ 4+1 redundant fans, hot-swappable fan tray.
■ Management: Ethernet and console RJ-45 ports; USB storage port.
■ Pre-loaded with Open Network Install Environment (ONIE).
■ Compatible with Open Network Linux (ONL).

TELECOM INFRA PROJECT

Freedom of choice

Greater control

Rapid innovation

Reduced CAPEX and OPEX

Free Software Included

Interfaces

Description

1.	2 x Modular DC/AC Power Supply 1+1	7.	1 x RJ-45 console port
2.	4 x 40G/100G QSFP28 Ethernet ports	8.	1 x ToD port
3.	20 x 10G/25G SFP28 Ethernet ports	9.	1 x PPS I/O
4.	1 x RJ-45 management port	10	USB Type-A storage port
5.	GNSS antenna input	11.	Fan tray
6.	1 x 10MHz I/O		

Ports

- Switch Ports
  20 x SFP28 (each supports 1/10 GbE or 25 GbE)
  4 x 100G QSFP28 (each supports 40/100 GbE)
- Management Ports on Front Panel
  1 x RJ-45 serial console
  1 x RJ-45 1000BASE-T management Ethernet port (MGMT)
  1 x USB Type A (storage)
- Clocking and Timing ports
  1 x 1PPS I/O port
  1 x 10MHz I/O port
  1 x Time of Day (ToD) RJ-45 port
- GNSS Antenna: 1 x GNSS antenna input port
- Supported Transceivers and Cables
  1000BASE-SX/LX/EX/ZX
  10GBASE-SR/LR/ER/ZR
  25GBASE-SR/LR
  100GBASE-SR4/LR4/ER4/ZR4/PSM4-2
  - Note: More optics and detailed cabling information can be found at www.edge-core.com.

Key Components

- Switch Silicon: Broadcom BCM88284 Qumran-2U
- CPU Modules
  Processor: Intel® Atom® C3508 1.6GHz 4-Core
  Memory: DDR4 SO-DIMM 2x 8GB SDRAM with ECC support
  Storage: 1 x 128GB mSATA SSD

Performance

- 360 Gbps bidirectional switching capacity
- 300 Mpps packet processing rate

Physical and Environmental

- Dimensions (WxDxH): 440 x 300 x 44 mm (17.32 x 11.81 x 1.73 in)
- Weight: 5.44 kg (11.99 lb)
- Fans: 4+1 redundant hot-swappable fan tray
- Operating Temperature: -40°C to 65°C (-40°F to 149°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Humidity: 5% to 95% non-condensing

PSU

- DC Input: -44 - -60V, 15.5-9.6 A, per PS
- AC Input: 100V-240V, 6.0-2.4 A, per PS

Power Consumption

- Typical: 167 W @110 VAC

Electromagnetic Compatibility

- Safety
  UL (CAN/CSA 22.2 No 62368-1 & UL62368-1)
  CB (IEC/EN60950-1 & IEC/EN62368-1)
  BSMI (CNS15598-1)*
- Electromagnetic Compatibility
  CE Mark
    EN 55032 Class A
    EN 55024 (Immunity) for Information Technology Equipment
    EN 55035 Class A
    EN 61000-3-3
    EN 61000-3-2
  FCC Title 47, Part 15, Subpart B Class A
  VCCI Class A
  CNS 15936 (BSMI)*

Environmental

- Bump: IEC60068-2-29- packaged
- Shock: ETSI EN 300 019-2-3 -Operational Tests, Class T3.2 op
- RoHS 2.0 Compliant
- WEEE Standards: The switches complied with the following WEEE standards: Waste Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

Warranty

Please check 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.

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.

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.

*Certification is by request with fees.