



CSP-7551

Hyper Network Appliance

Product Applications

- Network Visibility and Monitoring
- Intelligent Gateway
- Virtualized Security Appliance
- Access Gateway Function(AGF)
- User Plane Function(UPF)
- Next Generation Core(NGC)



The Accton CSP-7551 is a combination server-switch hardware appliance based on dual-socket Intel® Xeon® processors, supporting up to 28 cores per socket. The switch system includes 32 QSFP28 (100 GbE) network ports, all contained within a single 2U chassis form-factor.

The Intel® Xeon® Purley platform increases CPU capacity and performance for virtual machine consolidation and density, as well as boosting memory bandwidth (four channels). The flexible CSP-7551 design supports 8 DDR4 DIMM slots per CPU, with local storage options including two M.2 NVMe sockets (maximum of two devices). The hardware platform is truly open, either install an available operating system and application software that suits your needs, or build your own customized device that represents a solid future-proof investment.

The CSP-7551 is an ideal solution for high-performance network visibility monitoring, intelligent Gateway, virtualized security, or for application of Access Gateway Function(AGF), User Plane Function(UPF), Next Generation Core(NGC) in the 5G era.

Key Features

- Dual processor sockets:
 - Intel® Xeon® processor family (Skylake or Cascade Lake)
 - Up to 28 cores per socket
 - 16 DIMM slots per socket for DDR4 2133/2400/2666 MHz ECC LRDIMM or RDIMM
- Flexible local storage options for optimized system performance:
 - 2 x M.2 NVMe sockets
 - Maximum of two devices
- Network switch interfaces:
 - 32 x 100 GbE QSFP28 ports
- Optional 4 PCIe expansion slots for customized Stratix 10 MX FPGA card or standard PCIe card
 - Two PCIe x16
 - Two PCIe x8
- Sufficiency path for system data and management
 - Two PCIe x16
 - One PCIe x4
- Dual redundant AC PSUs (DC PSUs are optional)
- Remote management through a Baseboard Management Controller (BMC)

CSP-7551 Specifications

Form Factor

2U rack mount

Processor System

Processor: 2 x Intel® Xeon® Skylake 4110 (8 cores, 2.1G) Socket
Type: Socket P0 (Purley with Skylake CPU)
Core Number: Support up to 28 cores with Intel HT technology
SKU Type: Up to 205W extended supply life SKUs
PCH: Lewisburg C624(support C620 series, optional)

Memory

Technology: DDR4, 2133, 2400, 2666MHz
Max. Capacity: 512GB (4 channels per CPU)
Socket Type: 288-pin RDIMM or LRDIMM
ECC Support: Yes

Networking

Switch Chip: Barefoot Tofino 64Q
Switch Capacity: Up to 3.2 Tbps switching capacity
Interconnect Chip: Intel PCH C624

Ethernet I/O

100G: 32 x 100 GbE QSFP28

Time Synchronization*

GPS: SMA input to embedded module
Sync-E: ITU-T G.8261, G.8262, G.8264 in 32x100GbE
1588: ITU-T G.8275.1 full timing support
ITU-T G.8275.2 partial timing support
ITU-T G.8273.2 T-BC Class B
ITU-T G.8271 1PPS/ToD port

Acceleration

Security and Compression: Intel QuickAssist Technology (option)

Management

BMC Chip: AST2500 or AST2520
Ethernet: 1 x GbE RJ-45 for CPU and BMC
Console: 1 x RJ45 console for CPU and BMC
USB: 1 x USB 3.0

Local Storage

NVMe & SATA: 2 x Intel M. 2 sockets Maximum 2 devices

Power Supply

Power Type: 2 x redundant 2600 W AC PSUs (DC PSUs optional)
AC Input: 90-264 VAC @ 47-63 Hz
Watts: 2 x 2600 W (1+1 redundant, 2600 W each)

System Fans

3+1 hot-swappable redundant fan modules

System Power Consumption

TBD

Dimensions

440 (W) x 800 (D) x 87 mm (H)

Weight

22 kg

Environment

Operating Temperature: 5 to 40°C
Operating Humidity: 10% - 90% RH
Storage Temperature: -40 to 70°C
Storage Humidity: %90 RH, 40°C

Compliances

EMC/Safety: CE, CB, cUL, FCC, ICES003, VCCI, CCC
Full RoHS

Software Supported

Onie, Sonic, OpenBMC