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:** Lewisburg C624(support C620 series, optional)

### Memory
- **Technology:** DDR4, 2133, 2400, 2666MHz
- **Max. Capacity:** 512GB (4 channels per CPU)
- **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**

---

*Copyright © 2021 Accton Technology Corporation. All rights reserved.*