<table>
<thead>
<tr>
<th>Component</th>
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<th>Description/Comments</th>
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<tr>
<td>Chassis</td>
<td>CSE-847BE1C4-R1K23LPB</td>
<td>4U rackmount server enclosure w/ 36.35&quot; HDD bays.</td>
</tr>
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</table>
| Motherboard | MBD-X11SPL-F-O       | X11SPL-F (BIOS: 2.1, IPMI Firmware: 1.46)  
Single-Socket P (LGA3647)  
165W Skylake-EP  
8 DIMM slots  
1 (x4) PCIe 3.0 low-profile expansion slot  
6 (x8) PCIe 3.0 low-profile expansion slots  
M.2 Interface: PCI-E 3.0 x4 |
| Front       | BPN-SAS3-846EL1      | Single-expander (dual-port) 24-drive SAS3 backplane.     |
| Rear        | BPN-SAS3-826EL1-N4    | Connectors for SAS #9,#10,#11,#12 are hybrid ports that support both SAS3 and NVMe. cf. UG2-4 |
| SSD Bays    | MCP-220-82609-0N      | Rear 2.5 x 2 Hot swap HDD kit  
HDD0 (left, viewed from rear) => I-SATA2  
HDD1 (right, viewed from rear) => I-SATA3 |
| SSD (OS)    | HDS-I2T0-SSDSC2KB240G8 | (2x) Intel D3-S4510 240GB SATA 6Gb/s 3D TLC 2.5" 7mm System boot drives (RAID1). |
| SAS Cables  | CBL-SAST-0531-01     | (4x) MINI SAS HD,12G,INT,80CM,30AWG  
Backplane <<= LSIS3008 interconnects |
| CPU         | P4X-SKLD1640-5R3AX    | 18-core 2.3GHz Skylake 6140 processor @140W.            |
| Memory      | MEM-DR432L-HL01-ER26 | 256GB: (8x) 32GB DDR4 2666 2Rx4 ECC REG DIMM          |
| HDD (Data)  | HDD-A8000-ST8000NM0075 | (36x) 8T Seagate 3.5" SAS3 data drives  
Firmware: E003                                           |
| Storage OAC | AOC-S3008L-LBE       | LSI 3008 based SAS3 HBA, 12Gb, 8 internal ports.  
Firmware: 15.00.03.00  
Port1 (x4 SAS ports) => BPN-SAS3-846EL1 J49 via CBL-SAST-0531-01  
Port2 (x4 SAS ports) => BPN-SAS3-846EL1 J50 via CBL-SAST-0531-01 |
| Storage OAC | AOC-S3008L-LBE       | LSI 3008 based SAS3 HBA, 12Gb, 8 internal ports.  
Firmware: 15.00.03.00  
PCI Slot #3 (b:4.0.0.0.0)(x8)  
Port1 (x4 SAS ports) => BPN-SAS3-846EL1 J14 via CBL-SAST-0531-01  
Port2 (x4 SAS ports) => BPN-SAS3-846EL1 J15 via CBL-SAST-0531-01 |
| Network OAC | AOC-MCX413A-GCAT-M5046 | ConnectX-4 EN NIC, 50GbE single-port QSFP28, PCIe3.0 x8  
Firmware: 12.24.1000  
PCI Slot #5 [17.00.0.0](x8) |
| Network OAC | AOC-MCX413A-GCAT-M5046 | ConnectX-4 EN NIC, 50GbE single-port QSFP28, PCIe3.0 x8  
Firmware: 12.24.1000  
PCI Slot #6 [65.00.0.0](x8) |
| PSU         | PWS-1K23A-1R         | (2x) AC-DC 1200W, Titanium Level, Redundancy, 1U, +12V/+5Vsb |

All hardware components are supported and detected by the operating system (Red Hat Enterprise Linux 7.6). See output from dmidecode, ipmitool, lshw, etc.