MiTAC Aowanda OpenEdge Server Proposal

Jan 2020
Topics

- MiTAC OpenEdge Brief
- Quick Comparing with Nokia Open Edge Server
- Add-on Value
Aowanda 2U Chassis Enclosure

440 W * 430 D * 86.3 H
**SKU#1**

(3) 1U nodes

- 2x Power Supply
- RMC Tray
- 3x 1U Sled

**SKU#2**

(1) 1U node +
(2) (1) 2U node

- 2x Power Supply
- 1x 1U Sled
- RMC Tray
- 1x 2U Sled
Aowanda System & Nokia System

- Same RMC
- Lower Midplane
- Same PSUs

<table>
<thead>
<tr>
<th>Specification</th>
<th>Nokia</th>
<th>Aowanda</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form factor</td>
<td>3U5N</td>
<td>2U3N</td>
</tr>
<tr>
<td>Dimension</td>
<td>440W x 130.55H x 430D mm</td>
<td>440W x 86.3H x 430D mm</td>
</tr>
<tr>
<td>CPU</td>
<td>Purley</td>
<td>Whitley</td>
</tr>
<tr>
<td>PCIe</td>
<td>Gen3 48 Lanes</td>
<td>Gen4 64 lanes</td>
</tr>
<tr>
<td>Expansion slot</td>
<td>OCP 2.0</td>
<td>OCP 3.0</td>
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</tbody>
</table>

Nokia MB

Aowanda MB

Empowering a Connected World of Infinite Possibilities
SKU#11 (2 SSD):
- **CPU**: Intel ICX CPU Series up to 165W
- **PCI Expansion Slots**
  - (1) x16 FHHL PCIE Gen 4.0 slot
- **Network**
  - (1) Support x16 PCIE Gen 4.0 OCP 3.0 NIC mezz slot
- **Storage**
  - (2) M.2, support 22110/2280 NVMe SSD
  - (2) 7mm SATA/NVMe SSD

SKU#12 (2 PCIe):
- **CPU**: Intel ICX CPU Series up to 165W
- **PCI Expansion Slots**
  - (1) x16 FHHL PCIE Gen 4.0 slot
  - (1) x16 HHHL PCIE Gen 4.0 slot
- **Network**
  - (1) Support x16 PCIE Gen 4.0 OCP 3.0 NIC mezz slot
- **Storage**
  - (2) M.2, support 22110/2280 NVMe SSD
Aowanda 2U Computing Sled Spec

**SKU#21 (4 U.2):**

**CPU:** Intel ICX CPU Series up to 165W

**PCI Expansion Slots**
- (1) x16 FHFL PCIe Gen 4.0 slot (DW)
- (1) x8 FHHL PCIe Gen 4.0 slot

**Network**
- (1) Support x16 PCIe Gen 4.0 OCP 3.0 NIC mezz slot

**Storage**
- (2) M.2, support 22110/2280 NVMe SSD
- (4) 15mm SATA/NVMe HDD/SSD

**SKU#22 (6 SSD):**

**CPU:** Intel ICX CPU Series up to 165W

**PCI Expansion Slots**
- (1) x16 FHFL PCIe Gen 4.0 slot (DW)
- (1) x8 FHFL PCIe Gen 4.0 slot
- (1) x16 FHHL PCIe Gen 4.0 slot

**Network**
- (1) Support x16 PCIe Gen 4.0 OCP 3.0 NIC mezz slot

**Storage**
- (2) M.2, support 22110/2280 NVMe SSD
- (6) 7mm SATA SSD
MiTAC Aowanda OpenEdge Key Features

- Migrate to Intel new generation CPU support PCIe G4
  - Offering enough bandwidth for dual ports OCP NIC.
  - Offering higher bandwidth for accelerator cards and NVMe SSD.
- Add security features
  - Intel FPGA, Dual SPI (for BIOS and BMC), TPM, ASD (At Scale Debug).
- Tool-Less
- Multiple SKUs options
- Multiple environment (NEBS)
MiTAC Aowanda Sample Schedule

- Q1 2020: Engineering sample test in house
- Q2 2020: limited customer sample by Intel QS CPU/PCH
- Q3 2020: Evaluation samples made by production CPU/PCH
MiTAC Aowanda Next Step

- Server: Aowanda 1U full width 2S server
- Storage: WanStorage
- Eth Switch: WanConnect

**WanStorage**
- 1U half width
- (8) E1. L

**WanConnect**
- 1U half width
- (16) 25G ports for data
- (4) 100G ports for uplink
Welcome to give us feedback

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Thank you!