The EB4400 provides PCIe Gen 4 configurable expansion for ruggedized, transportable AI applications at twice the performance of the previous generation PCIe Gen 3. The appliance supports up to 4 NVIDIA A100 PCIe GPUs which deliver 2.5x FP64 performance compared to the NVIDIA V100, with two PCIe Gen 4 x16 HBA/NIC slots for up to 128GB/s of sustained data throughput. Alternatively, the EB4400 can be configured to provide 8 single-width PCIe Gen 4 x8 slots for FPGA data ingest or the latest storage add-in cards. Additional features including dynamic fan speed control, IPMI based system monitoring, replaceable fan filters, and optional SmartNIC host configuration elevate the EB4400 to the ideal expansion platform for the entire AI workflow.

The EB4400 combines a small, rugged form factor with the latest PCIe Gen 4 add-in cards and features to meet the needs of any airborne, naval, or ground based transportable AI application.

### APPLICATION EXAMPLES

**EB4400 as a GPU Compute Accelerator**
- OSS-538, 5-slot PCIe Gen4 x16, supporting 4 dual-width GPU
- 2x PCIe4 x16 Host-to-Target uplinks (128 GB/s)

**EB4400 as a Flash Storage Array**
- OSS-521, 8-slot PCIe Gen4
- 8x OSS-PCIe4-ADPT-x8-M.2-2 for 16x hot-swappable PCIe Gen4 M.2/E1.S drives
- PCIe4 x16 Host-to-Target uplinks (32 GB/s)

**EB4400 as an FPGA Sensor Array**
- OSS-521, 8-slot PCIe Gen4, supporting 7 PCIe Gen4 x8 FPGA sensor add-in cards
- 2x PCIe4 x16 Host-to-Target uplinks (64 GB/s)

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
</table>
| System                   | 4U Custom Form Factor (10.7” x 7.0” x 18.5”)
|                          | Net weight 25 lbs. |
| Host Options             | 1x PCIe4 x16 Host-to-Target uplink (32 GB/s) |
|                          | 2x PCIe4 x16 Host-to-Target uplinks (64 GB/s) |
|                          | SmartNIC Host |
| Backplane Options        | OSS-538:      |
|                          | 1x single-width PCIe 4.0 x16 FHFL upstream slot |
|                          | 4x dual-width PCIe 4.0 x16 FHFL downstream slots |
|                          | OSS-521:      |
|                          | 1x single-width PCIe 4.0 x16 FHFL upstream slot |
|                          | 6x single-width PCIe 4.0 x16 FHFL downstream slots |
|                          | 1x dual-width PCIe 4.0 x16 FHFL downstream slot |

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Specifications are subject to change without notice | 2/10/2021
## SPECIFICATIONS CONTINUED

**Additional Slot Options**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Riser</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Modifies one dual-width PCIe 4.0 x16 FHFL downstream slot to two single-width PCIe 4.0 x16 FHFL downstream slots per backplane</td>
<td>• Adds an additional single-width PCIe 4.0 FHFL downstream slot per backplane</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

- **Temperature:**
  - Operating temp 0 ° to 35 °C ambient.
  - Short-term (30 mins) operating temp -5°C to 40°C ambient.
  - Storage temp -40°C to 70°C.

- **Operational Humidity:**
  - Operating humidity 5-95% (non-condensing)
  - Storage humidity 0-95% (non-condensing)

- **Operational altitude:**
  - Operating altitude 6000 ft. at operating temp, 15,000ft. at derated temp.
  - Storage altitude 40,000 ft.

- **Fans:**
  - 3x 180CFM 92mm fans
  - Default PWM controlled based on built-in temperature sensors
  - Optional IPMI system monitoring and control

**Power Options**

| Single/Dual AC 1600W | Single/Dual DC 1600W |

**System Monitoring**

- **Default** – automatic dynamic temperature-based fan speed control
- **Optional** – IPMI system monitoring with power, temperature, and fan speed control and monitoring

**Fan Filters**

- Optional Quadrafoam 45 PPI Replaceable Fan Filters

**PCIe 4.0 Cable Lengths**

- 1m
- 2m
- 3m

**Power Cords**

- 6' US 110V
- 6' US 240V
- 6' UK
- 2' IEC
- 6' IEC

**Agency Compliance**

- Agency Certifications (testing pending):
  - FCC Class A
  - CE Safety & Emissions
  - UL, cUL
  - RoHS3