Mustang-V100-MX8

**Feature**
- Half-Height, Half-Length, Single-slot compact size
- Low power consumption, approximate 25W
- Supported OpenVINO™ toolkit, AI edge computing ready device
- Eight Intel® Movidius™ Myriad™ X VPU can execute multiple topologies simultaneously.

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Mustang-V100-MX8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Chip</td>
<td>Eight Intel® Movidius™ Myriad™ X MA2485 VPU</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Ubuntu 18.04.x 16.04.x LTS 64bit, CentOS 7.4 64bit, Windows® 10 64bit</td>
</tr>
<tr>
<td>Dataplane Interface</td>
<td>PCI Express x4, Compliant with PCI Express Specification V2.0</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Approximate 25W</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20°C~60°C</td>
</tr>
<tr>
<td>Cooling</td>
<td>Active fan</td>
</tr>
<tr>
<td>Dimensions Standard</td>
<td>Half-Height, Half-Length, Single-slot PCIe</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>5% ~ 90%</td>
</tr>
<tr>
<td>Power Connector</td>
<td>*Preserved PCIe 6-pin 12V external power</td>
</tr>
<tr>
<td>Dip Switch/LED indicator</td>
<td>Identify card number</td>
</tr>
</tbody>
</table>

**Support Topology**

- AlexNet, GoogleNetV1/V2, MobileNet SSD, MobileNetV1/V2, MTCNN, Squeezenet1.0/1.1, Tiny Yolo V1 & V2, Yolo V2, ResNet-18/50/101

* For more topologies support information please refer to Intel® OpenVINO™ Toolkit official website. [Supported Models](https://docs.openvinotoolkit.org/latest/_docs_IE_DG_Introduction.html#SupportedFW) [Supported Framework Layers](https://docs.openvinotoolkit.org/latest/_docs_MO_DG_prepare_model_Supported_Frameworks_Layers.html)

**Ordering Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustang-V100-MX8-R20</td>
<td>Computing Accelerator Card with 8 x Movidius Myriad X MA2485 VPU, PCIe Gen2 x4 interface, RoHS</td>
</tr>
</tbody>
</table>

**Packing List**

- 1 X Full height bracket
- 1 x External power cable
- 1 x QIG

*TANK AIoT dev. kit PCIe slot provides 75W power, this feature is preserved for user in case of different system configuration. Warning: DO NOT install the Mustang-V100-MX8 into the TANK AIoT Dev. Kit before shipment. It is recommended to ship them with their original boxes to prevent the Mustang-V100-MX8 from being damaged.*
**Mustang-V100-MX8 Block Diagram**

- 8 Intel® Movidius™ Myriad™ X VPU delivering up to 8 TOPs of dedicated networks compute
- Interface: PCIe Gen2 x 4
- Form Factor: Standard Half-Height, Half-Length, Single-slot
- Cooling: Active fan.
- Operation Temperature: -20°C~60°C
- Operation Humidity: 5% to 90% relative humidity
- Power Consumption: Approximate 25W
- Power Connector: *Preserved PCIe 6-pin 12V external power
- DIP Switch/LED Indicator: Identify card number.

**Mustang-V100-MX8 Dimensions (Unit: mm)**

- Number LED: 80.02
- Adjustment Button: 23.16
- PCIe to USB 3.2 Gen1: 139
- Power In: 59.05 22.15
- Dimensions: 169.54
- PCIe Switch: 45.56
- PCIe Gen2 x 4: 187
- PCIe to USB 3.2 Gen1: 56.16 16.07 2.03
- Dimensions: 63.58