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***AI Solution***

Mustang-V100-MX8



# *Specifications*

***Feature***

* Half-Height, Half-Length, Single-slot compact size
* Low power consumption ,approximate 2.5W for each Intel® Movidius™ Myriad™ X VPU.
* Supported OpenVINO™ toolkit, AI edge computing ready device
* Eight Intel® Movidius™ Myriad™ X VPU can execute multiple topologies simultaneously.



|  |  |
| --- | --- |
| **Model Name** | **Mustang-V100-MX8** |
| Main Chip | Eight Intel® Movidius™ Myriad™ X MA2485 VPU |
| Operating Systems | Ubuntu 16.04.3 LTS 64bit, CentOS 7.4 64bit, Windows10 64bit (more OS are coming soon) |
| Dataplane Interface | PCI Express x4 |
| Compliant with PCI Express Specification V2.0 |
| Power Consumption | <30W |
| Operating Temperature | 5°C~55°C (ambient temperature) |
| Cooling | Active fan |
| Dimensions Standard | Half-Height, Half-Length, Single-slot PCIe |
| Operating Humidity | 5% ~ 90% |
| Power Connector | \*Preserved PCIe 6-pin 12V external power |
| Dip Switch/LED indicator | Identify card number |
| Support Topology | AlexNet, GoogleNet V1/V2/V4, Yolo Tiny V1/V2, Yolo V2/V3, SSD300,SSD512, ResNet-18/50/101/152, DenseNet121/161/169/201, SqueezeNet 1.0/1.1, VGG16/19, MobileNet-SSD, Inception-ResNetv2, Inception-V1/V2/V3/V4,SSD-MobileNet-V2-coco, MobileNet-V1-0.25-128, MobileNet-V1-0.50-160, MobileNet-V1-1.0-224, MobileNet-V1/V2, Faster-RCNN |

\*Standard PCIe slot provides 75W power, this feature is preserved for user in case of different system configuration

# *Ordering Information*

|  |  |
| --- | --- |
| Part No. | Description |
| Mustang-V100-MX8-R10 | Computing Accelerator Card with 8 x Movidius Myriad X MA2485 VPU, PCIe Gen2 x4 interface, RoHS |

***Packing List***

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

80.02

80.05

63.58

56.16

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***AI Solution***

**Multiple Intel® Movidius™ Myriad™ X Deep Learning Acceleration Add-in Card**

**PCIe Gen2 x 4**

**PCIe to USB3.0**

**PCIe to USB3.0**

**PCIe to USB3.0**

**PCIe to USB3.0**

**PCIe**

**Switch**

**Mustang-V100-MX8 Block Diagram**

* + Intel® Movidius™ Myriad™ X VPU delivering up to 1 TOPs of dedicated networks compute
	+ Interface: PCIe Gen2 x 4
	+ Form Factor: Standard Half-Height, Half-Length, Single-slot
	+ Cooling: Active fan.
	+ Operation Temperature : 5°C~55°C(ambient temperature)
	+ Operation Humidity : 5% to 90% relative humidity
	+ Power Consumption: < 30W
	+ Power Connector: \*Preserved PCIe 6-pin 12V external power
	+ DIP Switch/LED Indicator: Identify card number.

\*Standard PCIe slot provides 75W power, this feature is preserved for user in case of different system configuration

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

Number LED

 Adjustment Button

13.16

 Power In

139

59.05

22.15

169.54

19.58

16.07 2.03