

Mustang-V100-MX4

Preliminary



Feature

- PCIe Gen 2 x 2 form factor
- 4 x Intel® Movidius™ Myriad™ X VPU MA2485
- Power efficiency, only 15W.
- Operating Temperature 0°C~55°C (In TANK AIoT Dev. Kit)
- Powered by Intel's OpenVINO™ toolkit
- Multiple cards supported

Introduction

The Mustang-V100-MX4 is a PCIe Gen 2 x 2 card included 4 Intel® Movidius™ Myriad™ X VPU, providing an flexible AI inference solution for compact size and embedded systems.

VPU is short for vision processing unit. It can run AI faster, and is well suited for low power consumption applications such as surveillance, retail, transportation. With the advantage of power efficiency and high performance to dedicate DNN topologies, it is perfect to be implemented in AI edge computing device to reduce total power usage, providing longer duty time for the rechargeable edge computing equipment.

Specifications

| | |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Model Name | Mustang-V100-MX4 |
| Main Chip | 4 x Intel® Movidius™ Myriad™ X MA2485 VPU |
| Operating Systems | Ubuntu 16.04.3 LTS 64bit, CentOS 7.4 64bit, Windows® 10 64bit |
| Dataplane Interface | PCIe Gen 2 x 2 |
| Power Consumption | 15W |
| Operating Temperature | 0°C~55°C (In TANK AIoT Dev. Kit) |
| Cooling | Active fan |
| Dimensions | 113 x 56 x 23 mm |
| Operating Humidity | 5% ~ 90% |
| Dip Switch/LED indicator | Identify card number |
| Support Topology | AlexNet, GoogleNetV1/V2, Mobile_, SSD, MobileNetV1/V2, MTCNN, Squeezenet1.0/1.1, Tiny Yolo V1 & V2, Yolo V2, ResNet-18/50/101 |

Ordering Information

| Part No. | Description |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Mustang-V100-MX4-R10 | Computing Accelerator Card with 4x Intel® Movidius™ Myriad™ X MA2485 VPU, PCIe Gen 2 x 2 interface, RoHS |

Packing List

- 1 x Full height bracket
- 1 x QIG

Key Features of Intel® Movidius™

Myriad™ X VPU:

- Native FP16 support
- Rapidly port and deploy neural networks in Caffe and Tensorflow formats
- End-to-End acceleration for many common deep neural networks
- Industry-leading Inferences/S/Watt performance

10X Higher Performance

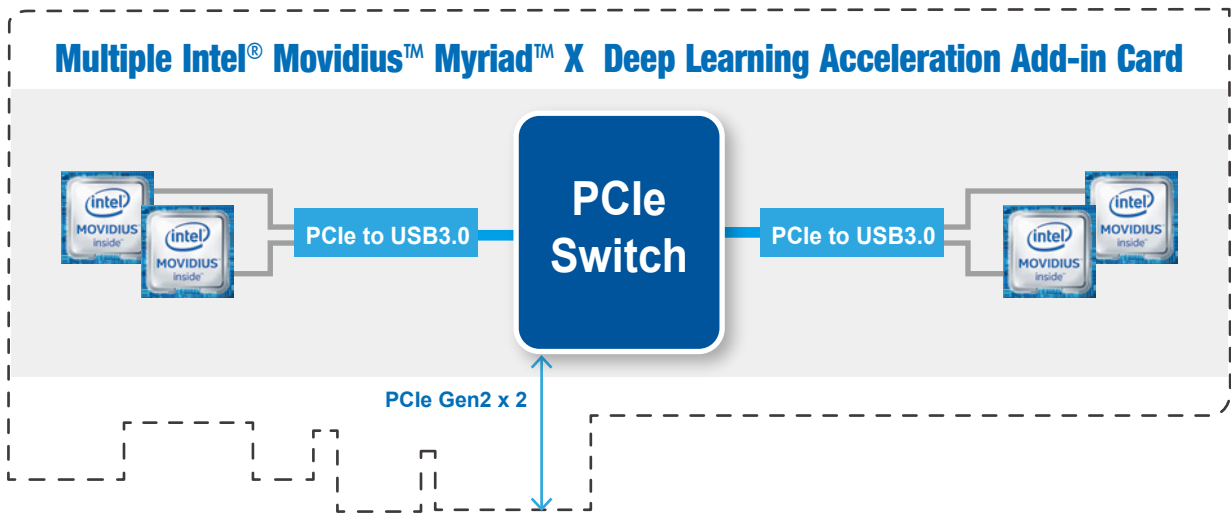
1 Trillion operations per second

1 TOPS
1 Trillion operations per second of dedicated neural networks compute

ULTRA Low power

Movidius MA2485 Myriad X

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



Mustang-V100-MX4 Dimensions (Unit: mm)

