

# IEI Accelerators with Intel® Solution



Interface	FPGA	MX VPU x8	MX VPU x4	MX VPU x2	MX VPU x1	KMB VPU x3	KMB VPU x1
PCIe	Mustang-F100-A10 Intel® Arria10 FPGA	Mustang-V100- MX8 Myriad X	Mustang-V100- MX4 Myriad X			Mustang-V200- KB3 KeemBay	
MPCIE				Mustang-MPCIE -MX2			
M.2				Mustang-M2BM -MX2, BM Key	Mustang-M2AE -MX1, AE Key		Mustang-M2BM- KB1, M key

## ➔ Intel FPGA

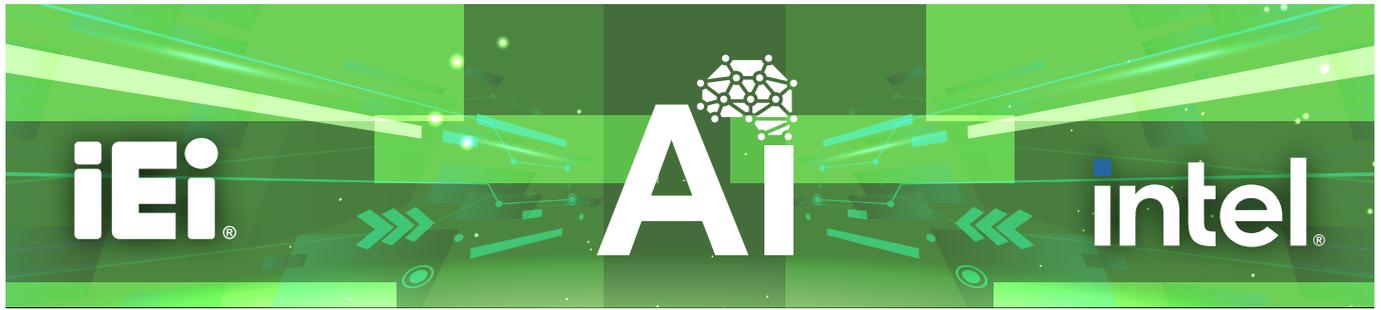
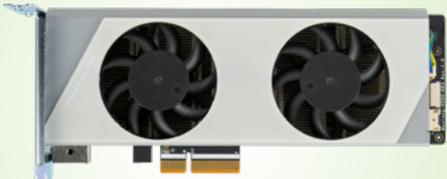
Intel® Arria® 10 FPGA GX in a small form factor, PCI Express\* (PCIe\*) acceleration card that is supported natively by the OpenVINO™ toolkit to deliver low-latency video inference for edge and, cloud deployment. It has been designed to add acceleration capabilities to PCIe\* host platforms and has been validated on the IEI TANK-870AI compact IPC for those with space and power constraints.

## ➔ Intel VPU

Intel® Movidius™ VPUs enable demanding computer vision and edge AI workloads with efficiency. By coupling highly parallel programmable compute with workload-specific hardware acceleration in a unique architecture that minimizes data movement, Movidius VPUs achieve a balance of power efficiency and compute performance. VPU technology enables intelligent cameras, edge servers and AI appliances with deep neural network and computer vision based applications in areas such as visual retail, security and safety, and industrial automation.

VPU Comparison		
SoC code name	Gen2 VPU Myriad X	Gen3 VPU Keem Bay
Embedded CPU	NA	4*Cortex ARM A53 1.5GHz
Functions	Inference	decode / Inference / encode
Precision	FP16	INT8
Performance	1 TOPS per chip	7.1 TOPS per chip
Structure		

# » Mustang Accelerate Card Family

*Preliminary*



**Mustang-V200-KB3**  
Three Intel® Movidius™ Keem Bay™



*Preliminary*



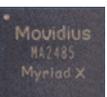
**Mustang-M2BM-KB1**  
Intel® Movidius™ Keem Bay™



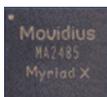

**Mustang-F100-A10**  
Intel® Arria® 10 GX1150 FPGA



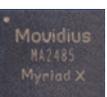

**Mustang-V100-MX8**  
Eight Intel® Movidius™ Myriad™ X MA2485 VPU

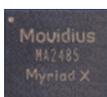
**Mustang-V100-MX4**  
Four Intel® Movidius™ Myriad™ X MA2485 VPU

**Mustang-M2AE-MX1**  
Intel® Movidius™ Myriad™ X MA2485 VPU

**Mustang-M2BM-MX2**  
Two Intel® Movidius™ Myriad™ X MA2485 VPU

**Mustang-MPCIE-MX2**  
Two Intel® Movidius™ Myriad™ X MA2485 VPU