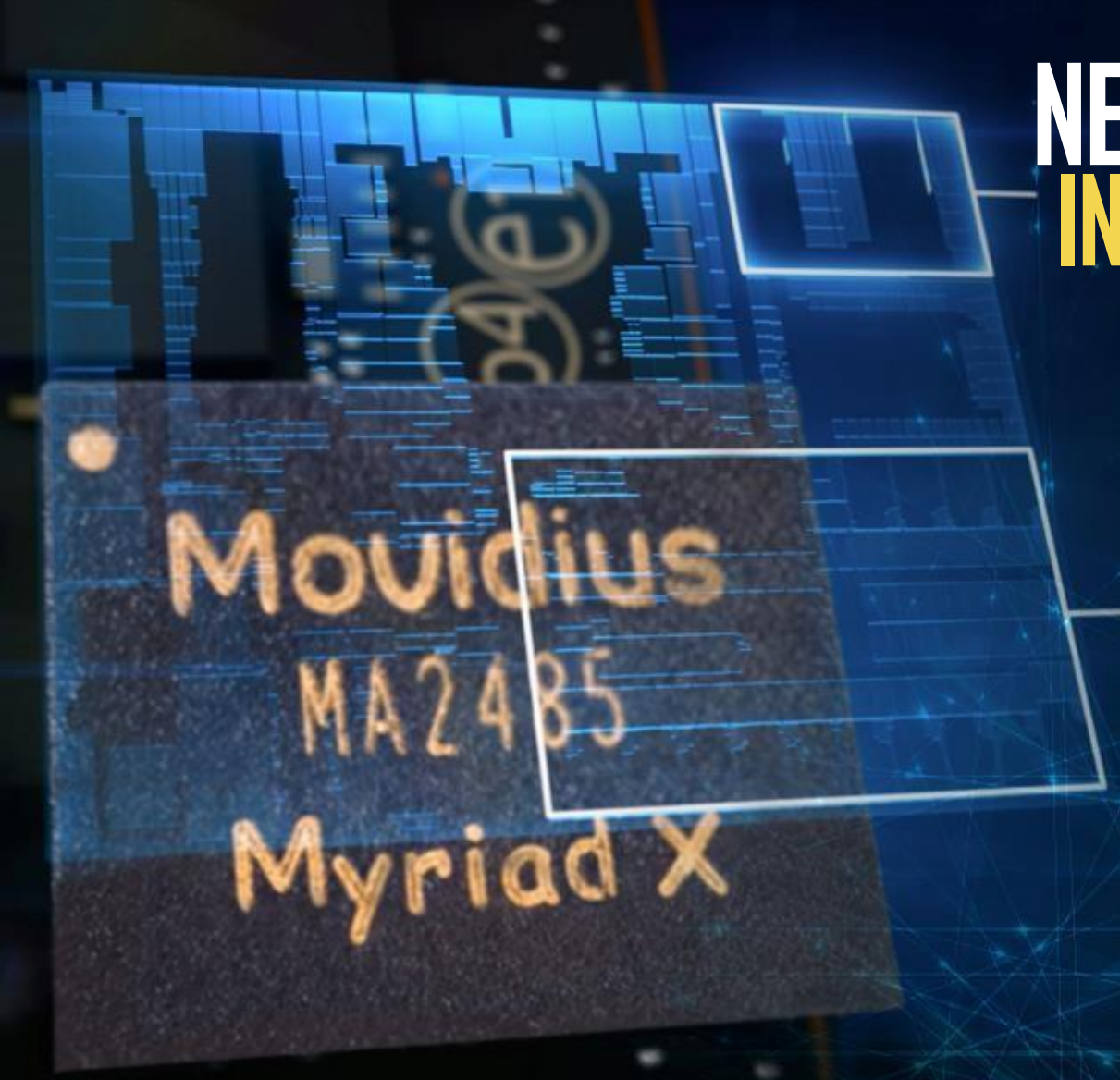
Accelerators based on Intel® Movidius™ Vision Processing Unit

REDEFINING THE AI DEVELOPMENT KIT
INTEL® NEURAL COMPUTE STICK 2

Vision Processing Unit (VPU)	Intel® Movidius™ Myriad™ X VPU
Software Development Kit	Intel® Distribution of OpenVINO™ toolkit
Operating Software Support	Ubuntu* 16.04 or 18.04 LTS (64 bit), Windows® 10 (64 bit), CentOS* 7.4 (64 bit), macOS* 10.4.4, Raspbian*, and other via the open-source distribution of OpenVINO™ toolkit
Supported Framework	TensorFlow*, Caffe*, MXNet*, ONNX*, and PyTorch* / PaddlePaddle* via ONNX* conversion
Connectivity	USB 3.1 Type-A
Dimensions	72.5mm X 27mm X 14mm
Operating Temperature	0° - 40° C
Material Master Number	964486
MSRP	$69 as of July 14th 2019

NEXT GENERATION AI INFERENCE
INTEL® MOVIDIUS™ MYRIAD™ X VPU

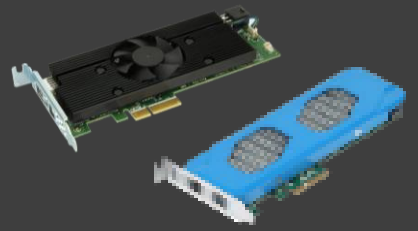


Neural Compute Engine
An entirely new deep neural network (DNN) inferencing engine that offers flexible interconnect and ease of configuration for on-device DNNs and computer vision applications

16 SHAVE Cores
VLIW (DSP) programmable processors are optimized for complex vision & imaging workloads

Hardware-based encoder
for up to 4K video resolution and includes a new stereo depth block that is capable of processing dual 720p feeds at up to 180Hz.

Examples of Intel® Vision Accelerator Design Products
Accelerators based on Intel® Movidius™ VPU

Example card based on Vision Accelerator Designs	 1 Intel® Movidius™ VPU	 2 Intel® Movidius™ VPUs	 8 Intel® Movidius™ VPUs
Interface	M.2, Key E	miniPCIe**	PCIe x4
Currently manufactured by*	AAEON, ADLINK, ADVANTECH, iEi, JW IPC, NEXCOM, tinyGO, uzei		
Software tools	INTEL® DISTRIBUTION OF OPENVINO™ TOOLKIT Develop NN Model; Deploy across Intel® CPU, GPU, VPU, FPGA; Leverage common algorithms		

*Please contact Intel representative for complete list of ODM manufacturers. Other names and brands may be claimed as the property of others.
Optimization Notice

Click here for Latest Publicly Posted Benchmarks

Click here for Programing Guide for Use with Intel® Distribution of OpenVINO toolkit