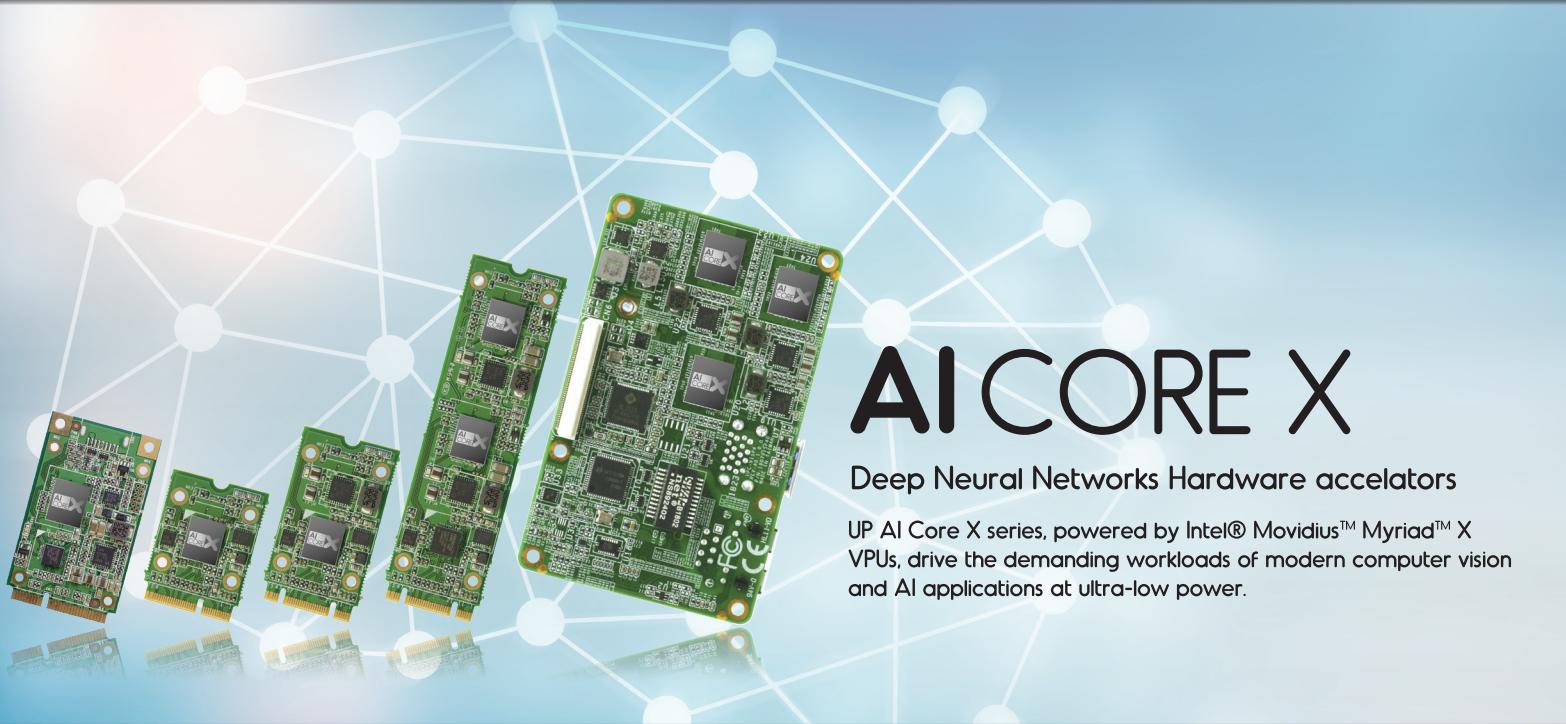


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Deep Neural Networks Hardware accelerators

UP AI Core X series, powered by Intel® Movidius™ Myriad™ X VPUs, drive the demanding workloads of modern computer vision and AI applications at ultra-low power.

CONVOLUTIONAL NEURAL NETWORKS

What type of Deep Neural networks can I run?

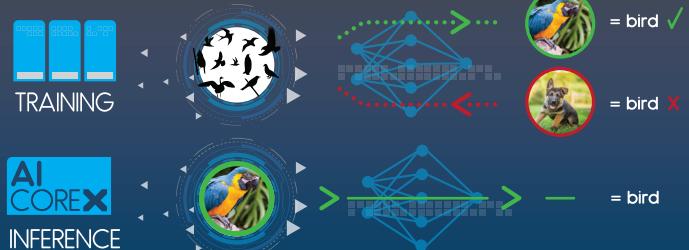
CAFFE

GoogleNet V1
Age/Gender Net
AlexNet
SqueezeNet V1.1
LeNet
CaffeNet
VGG Soumith VGG_A
MobileNet V1

TENSORFLOW

Inception V1
Inception V3
Inception V4
Inception ResNet V1 (facenet)
Inception Resnet V2
AlexNet
MobileNet V1

TRAINING VS INFERENCE



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UP AI Core X Neural Accelerator Family

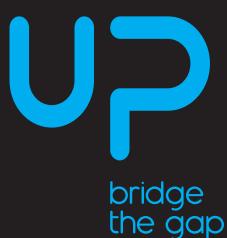
VPU	UP AI Core X	UP AI Core XM 2230	UP AI Core XM 2242	UP AI Core XM 2280	UP AI Vision Plus X*
Amount of VPU	Intel® Movidius™ Myriad™ X 2485	Intel® Movidius™ Myriad™ X 2485	Intel® Movidius™ Myriad™ X 2485	Intel® Movidius™ Myriad™ X 2485	Intel® Movidius™ Myriad™ X 2485
Form factor	1	1	1	2	3
Dimensions	mPCIe	M.2 2230 B+M key	M.2 2242 B+M key	M.2 2280 B+M key	Credit card
Supported frameworks	30 x 51 mm	22 x 30 mm	22 x 42 mm	22 x 80 mm	90 x 56.5 mm
Memory	Caffe, TensorFlow	Caffe, TensorFlow	Caffe, TensorFlow	Caffe, TensorFlow	Caffe, TensorFlow
Thermal	4Gb LPDDR4	4Gb LPDDR4	4Gb LPDDR4	4Gb LPDDR4	4Gb LPDDR4
System requirements	Fanless heatsink	Fanless heatsink	Fanless heatsink	Heatsink with active fan	Fanless heatsink
Software tool	x86_64 computer running Ubuntu 16.04, 1GB memory, 4GB Free storage, vacant expansion slot				
	NCS SDK, OpenVINO toolkit				

An ultra-low power design	Performing high demanding tasks at 2.5W per chip	Neural Compute Engine	A dedicated hardware accelerator for running on-device deep neural network applications
Best performance and efficiency	Best performance per dollar and watts. Linear performance increase in multiple chip solutions	A small-area footprint	Very small footprint that can easily be integrated into existing products

* Works exclusively with UP Core Plus



UP is a brand of AAEON Technology Europe, an associate company of ASUS group, focused on Embedded Computing, Artificial Intelligence on the Edge, Internet Of Things and Industry 4.0. UP's mission is to spread the intelligence in all the world around us. UP bridges the gap between the world of prototypes and the world of high-grade mass-produced intelligent systems solutions. UP gives affordable and easily accessible and support of all the latest technologies to embedded industry.



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