



# 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









#### UP AI Core X Neural Acellerator Family UP Al Core X UP Al Core XM 2230 UP Al Core XM 2242 UP Al Vision Plus X\* UP AI Core XM 2280 Intel® Movidius™ Myriad™ X 2485 4Gb LPDDR4 4Gb LPDDR4 4Gb LPDDR4 An ultra-low power Performing high demanding tasks at 2.5W per chip Neural Compute A dedicated hardware accelerator for running on-device deep neural design

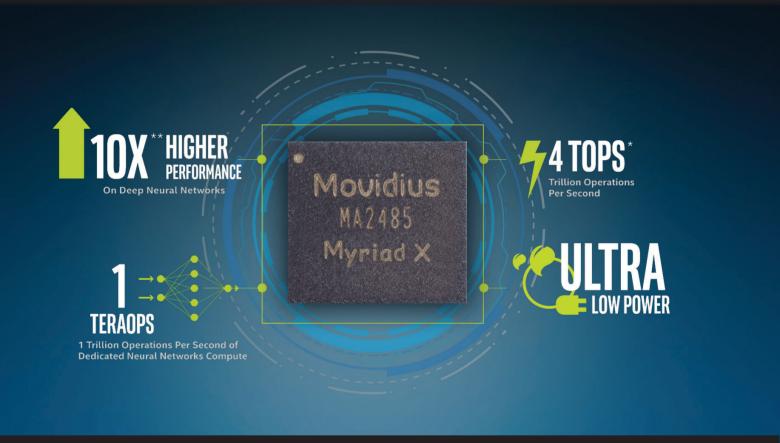
A small-area footprint

\* Works exclusively with UP Core Plus

Best performance per dollar and watts. Linear performance increase in

Best performance and

efficiency





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.



For more information about UP, please visit: www.up-board.org www.up-shop.org