

UP AI EDGE FAMILY



UP Core Plus

High performance mini SBC

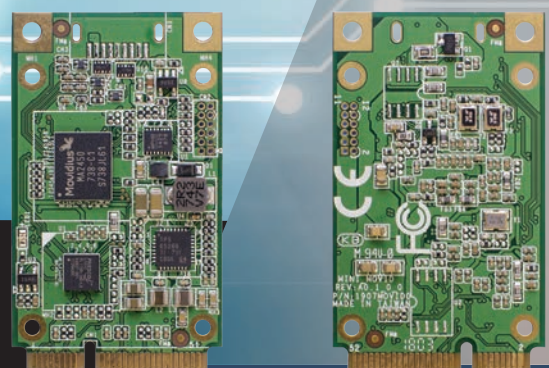
SOC	Intel® Atom™ x5/x7 / Celeron® / Pentium® 64-bit processor
Graphics	Intel® HD 500 Graphics
Memory	2GB / 4GB / 8GB onboard DDR4L-2400
Storage Capacity	32GB / 64 GB / 128 GB eMMC
Video & Audio	1x DP 4K 60Hz, 1x Full eDP, Audio via DP and I2S
Camera interface	1x MIPI-CSI 2 lane + 1x MIPI-CSI 4 lane
Operating humidity	10%~80%RH non-condensing
Operating Temperature	32-140°F / 0~60°C - optional -40-185°F / -40~85°C
USB	1x USB 3.0 Host + 1x USB 3.0 OTG + 2x USB 2.0 pin header
WiFi / BT	WiFi 802.11 AC 2T2R + Bluetooth 4.2 (BLE)
Power	12V DC-in @ 4A -6A 5.5/2.1mm jack
Dimensions	56.50 mm × 90 mm
Certificate	CE/FCC Class A, RED, RoHS complaint, REACH

Expansion
2x Docking Connector 100 pin including:
USB 2.0, USB 3.0, 6 PCI-E Lane, SATA, I2C, I2S, SPI, PWM, LPC, SDIO, HSUART, ISH, GPIO

Compatible Operating systems
Microsoft Windows 10 Professional, Microsoft Windows 10, IoT Core, Linux (Ubuntu, Yocto), Android Marshmallow

AI Core

mPCI-E AI Accelerator



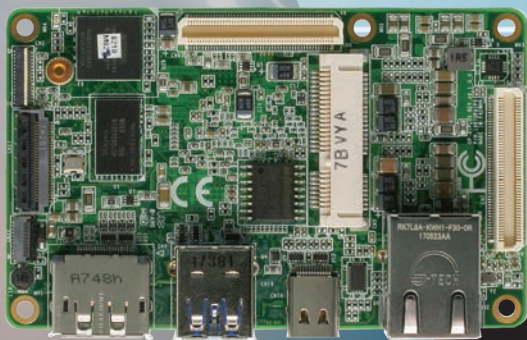
SOC	Intel® Movidius™ Myriad™ 2 2450
Supported Frameworks	TensorFlow, Caffe
Form Factor	Mini PCI-Express
Dimensions	51 x 30 mm
System requirements	x86_64 computer running Ubuntu 16.04 Available mPCI-E slot 1GB RAM 4GB free storage space

Net Plus

LAN Expansion board



- Ethernet EEPROM Internal I/O
 - Rear I/O
 - Operating temps
 - Operating humidity
 - Certification
 - Dimensions
- 4x Intel I211-AT (optional with I210-IT for wide temperature)
 - 1x EEPROM on I2C0 4Kb with Jumper for A0~A2 address
 - 1x mPCI-e / Mini card, mSATA
 - 1x uSIM Card Reader
 - 1x SATA (vertical)
 - 2x Docking connector to UP Core Plus main board
 - 1x Docking connector on bottom side for Expansion
 - 4x RJ45 Gigabit Ethernet port
 - 1x USB3.0
 - 1x Power LED
 - 0~60°C (optional -40~85°C)
 - 10%~80%RH non-condensing
 - CE/FCC Class B
 - 90 mm x 56.5 mm



AI Plus

AI Accelerator

- FPGA
 - Memory
 - Storage
 - Ethernet
 - Video input
 - USB
 - Expansion Slot
 - Docking
 - Power
 - Form Factor
 - Operating temps
 - Operating humidity
 - Certification
 - OS Support*
- Intel® Cyclone™ 10GX F672 (105KLE, 150KLE, 220KLE)
 - MAX 10 V36 PWR Sequence
 - Onboard DDR3 Single Channel x32 Max 2GB
 - 1x SPI-Flash 512 Mb
 - 1x Gigabit Ethernet (Realtek 8111G) to main board.
 - 1x HDMI IN, 1x DP IN, 1x LVDS IN
 - 1x MIPI-CSI (4 lanes)
 - 1x USB 3.0 Type A to main board, 1x USB 3.1 Type C
 - 1x Mini card (full-size) SATA-PCI-e coloy
 - 2x Docking connector 100-pin to UP Core Plus main board
 - 12V DC
 - 90 mm x 56.5 mm
 - 0~60°C
 - 10%~90%RH non-condensing
 - CE/FCC Class B
 - Windows 10, Linux Ubuntu, Yocto

*depending op FPGA IP drivers

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