

Item no.: UPS-APLP4F-A20-08128

## UPS-APLP4F-A20-08128 - UP Squared Developer Board with Intel Pentium N4200 Quad-Core, 8 GB DDR4

from **416,26 EUR**

Item no.: UPS-APLP4F-A20-08128  
 shipping weight: 0.30 kg  
 Manufacturer: UP Bridge the Gap



### Product Description

UPS-APLP4F-A20-08128 - UP Squared Developer Board with Intel(R) Pentium(R) N4200 Quad-Core, 8 GB DDR4, 128 GB eMMC

UP Squared (UP2) is the world's fastest maker board with the high performance and low power consumption features of Intel(R) Celeron(TM), Pentium(TM) and Atom(TM) processors (codename Apollo Lake).

The internal GPU is the new Intel(R) Generation 9 HD, supporting 4K Codec Decode and Encode for HEVC4, H.264 and VP8. Thanks to the Vector Units Image Processing Unit and Precision Timing Management to synchronize CPU with I/O, improved determinism (cache QoS, Intel Virtualization Technology), all the graphic processing is effortless to UP Squared.

UP Squared comes with 8 GB LPDDR4 and 128 GB eMMC. A 40-pin GP-bus provides the freedom for makers to build up their module. Additionally, there is a 60-pin EXHAT for embedded applications. This allows for the exploration of more possibilities. The expansion capabilities of UP2 (UP Squared) goes much further than this. Native mini-PCI-e, M.2 2230 and SATA3 are all built in on the board.

UP Squared supports the AI Core X mPCIe module, which features Intel Movidius Myriad X. With speeds up to 105 fps (80 typical) and 1 trillion floating point operations, adding on the AI Core X to UP Squared creates a powerful, compact AI Edge solution. UP Squared with AI Core X has proven real-world performance, used by AAEON partners in applications from license plate recognition to drone-based visual inspections.

The board supports Windows 10, Windows IoT Core, Ubinlux, Ubuntu, Yocto and Android Nougat. It's really UP to you to decide which operating system is best for your application. Now, all you need is an UP Squared to begin your project!

- Processor: Intel(R) Pentium(R) N4200 processor SoC
- Graphics: Intel(R) Gen 9 HD, supporting 4K Codec decode and encode for HEVC4, H.264, VP8
- I/O: 1x HDMI; 1x DP; I2S audio port
- Camera: CSI 2-lane + CSI 4-lane
- USB: 2x USB 2.0; 1x USB 3.0 OTG; 3x USB 3.0 (type A)
- Expansion: 1x 40-pin GPIO; 1x Mini-PCIe; 1x M.2 2230; 1x SATA3; 1x 60-pin EXHAT
- RTC: Yes
- Power: 5 V DC-in (at) 4 -6 A
- Dimension: 3.37" x 3.54" (85.6 x 90 mm)
- Memory: 8 GB (dual channel) LPDDR4
- Storage: eMMC 128 GB
- Display interface: eDP
- Ethernet: 2x Gb Ethernet (full speed) RJ-45
- OS support: Microsoft Windows 10 (full), Windows IOT Core, Linux (ubinux, Ubuntu, Yocto), Android Nougat
- Operating Temperature: 32°F ~ 140°F (0°C ~ 60°C)
- Operating humidity: 0% ~ 90% relative humidity, non-condensing
- Certificate: CE/FCC class A, RoHS compliant, REACH

### Specifications

**Scan this QR code to  
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All details, up-to-date  
prices and availability



