

Item no.: UPS-APLX7F-A20-0464

UPS-APLX7F-A20-0464 - UP Squared board with Intel(R) ATOM Quad Core

from **297,43 EUR**

Item no.: UPS-APLX7F-A20-0464

shipping weight: 0.30 kg

Manufacturer: UP Bridge the Gap



Product Description

UPS-APLX7F-A20-0464 - UP Squared board with Intel(R) ATOM Quad Core

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

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

UP Squared comes with 4 GB LPDDR4 and 64 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, 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) Atom(TM) E3950 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 A-6 A
- Dimensions: 3.37" x 3.54" (85.6 x 90 mm)
- Memory: 4 GB (dual channel) LPDDR4
- Storage: eMMC 64 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
view the product
All details, up-to-date
prices and availability

