

Item no.: UPS-APLP4F-A20-0432

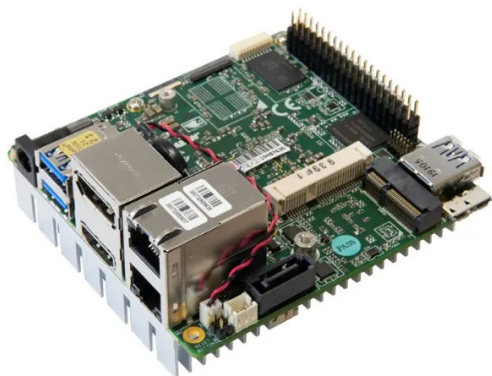
## UPS-APLP4F-A20-0432 - UP Squared Board with Apollo Lake Intel N4200 (F1), 04/32

from **343,36 EUR**

Item no.: UPS-APLP4F-A20-0432

shipping weight: 0.30 kg

Manufacturer: UP Bridge the Gap



### Product Description

UPS-APLP4F-A20-0432 - UP Squared Board with Apollo Lake Intel N4200 (F1), 04/32

UP Squared comes with 4 GB LPDDR4 and 32 GB eMMC. A 40-pin GP-bus provides the freedom for makers to build up their modules. Additionally, there is a 60-pin EXHAT for embedded applications. This allows for the exploration of more possibilities. The expansion capabilities of UP Squared goes much further than this. Native mini-PCI-e, M.2 2230 and SATA3 are all built-in on the board.

Unleash the power of Intels Apollo lake processors! The 40-pin I/O connector, the multiple USB 3.0 ports, the double Gigabit Ethernet, the HDMI, and more other features make it a perfect solution for different domains and products like Robotics, Drone, Machine Vision, Smart Home, Education, Digital Signage, Intelligent Cars, Internet Of Things. The compatibility with Linux, Android, and all the Windows 10 distributions give you great flexibility, scalability and quick time to market. List of contents:

- 1x UP Squared board
- 1x RTC battery
- 1x passive heatsink

#### System Level

- SoC: Intel(R) Pentium(TM) N4200 (up to 2.5 GHz)
- # of cores: 4
- Graphics: Intel(R) HD Graphics 505
- VPU: Optional (via mPCIe)
- FPGA: Intel(R) FPGA Altera MAX 10
- Memory: 4 GB
- eMMC: 32 GB
- BIOS: UEFI
- RTC: Yes
- Wake on LAN (WoL): Yes
- Watchdog timer: Yes
- PXE: Yes
- Compatible OS: Microsoft Windows 10 full version, Linux (ubinux, Ubuntu, Yocto), Android
- Power requirement: 5 V DC-in (at) 6 A, 5.5/2.1 mm jack
- Power supply type: AT (default)/ATX
- Power consumption (typical): 18 Watt
- Dimension: 3.4" x 3.54" (86.5 x 90 mm)
- Operation temperature: 32°F ~ 140°F (0°C ~ 60°C)
- Storage temperature: -40°F ~ 176°F (-40°C ~ 80°C)
- Operation humidity: 0% ~ 90% relative humidity, non-condensing
- MTBF (hours): 173,446 hours
- Certification: CE/FCC Class A

#### Display

- HDMI: 1x (HDMI 1.4b)
- Display port: 1x (DP 1.2 4K (at) 60 Hz)
- MIPI DSI/eDP: 1x eDP

#### I/O

- Audio: I2S audio port
- USB 2.0 type A: 2x
- USB 2.0 pin header: 2x
- USB 3.0 type A: 3x
- USB 3.0 OTG Micro B: 1x
- UART: 2x UART (Tx/Rx) debug port (pin header)
- HDD interface: 1x SATA 3.0
- Expansion slot: 1x mPCIe, 1x M.2 2230 E key, 1x 60-pin EXHAT
- 40-pin GP bus: 1
- MIPI-CSI: 1x MIPI-CSI 2-lane, 1x MIPI-CSI 4-lane
- SIM slot: No

#### Connectivity

- Ethernet: 2x GbLAN (RealTek RTL8111H-CG)
- WiFi: Optional (via. M.2 2230)
- Bluetooth: Optional (via. M.2 2230)
- LTE/4G: Optional (via. mPCIe)

#### Cooling

- Cooling: Passive cooling (fanless)

#### Package

- Net weight: 210.5 grams
- Package dimension (L x W x H): 126 x 122 x 57 mm

## Specifications

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