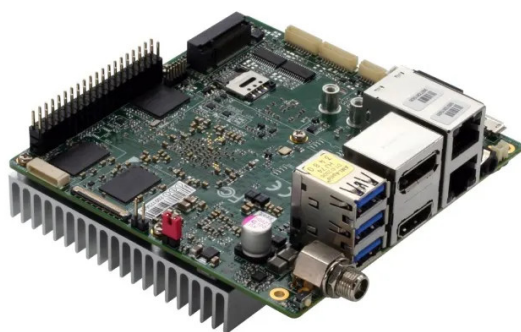**Item no.:** UPN-APLP4F-A10-0432

UPN-APLP4F-A10-0432 - UP Squared Pro Pentium Quad Core 04/32

from **392,89 EUR**

Item no.: UPN-APLP4F-A10-0432
shipping weight: 0.30 kg
Manufacturer: UP Bridge the Gap

📄 Product Description

UPN-APLP4F-A10-0432 - UP Squared Pro Pentium Quad Core 04/32

After the success of UP Squared, the worlds fastest x86 pro maker board, AAEON gives you the UP Squared Pro.

Based on the powerful Intel platform, formerly Apollo Lake, UP Squared Pro is the latest addition to AAEON's wide range of UP products. It is built for industrial use and capable of enabling next generation industrial automation and AI solutions, with extension capabilities to existing modules or AAEON's next generation of AI modules.

Unleash the future of industrial automation and AI vision with 5G connectivity and take your solutions to the PRO level.

The expansion boards are available in M.2 2230, M.2 2280 and M.2 3052 that provides options for project specific requirements for the ultimate Edge solution. The boards industrial setup with multiple serial ports, Ethernet ports (with TSN), 5G support, audio ports, and a range of other features make it a perfect solution for different domains and products like automation, robotics, drones, machine vision, and the Internet Of Things.

System Level

- SoC: Intel(R) Pentium(TM) N4200 (up to 2.5 GHz)
- Number of cores: 4
- Graphics: Intel(R) HD Graphics 500
- VPU: optional (via M.2 2280)
- FPGA: Intel(R) FPGA Altera MAX 10
- MCU: N/A
- 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 (Ubuntu, Yocto)
- Pre-installed OS: Optional Windows 10
- Power requirement: 12 ~ 24 V DC-IN (lockable connector)
- Power supply type: AT (default)/ATX
- Power consumption (typical): 20 Watt
- Dimensions: 4 x 4" (10.16 x 10.16 cm)
- 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): T.B.A.
- Certification: CE/FCC Class A, RoHS

Display

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

I/O

- Audio: Audio jack line-in/out
- USB 3.0 type A: 3
- USB 3.0 OTG Micro B: 1
- UART: 2x UART (Tx/Rx) debug port (pin header)
- Serial port: 2x RS232/422/485
- HDD interface: 1x SATA 3.0
- Expansion slot: 1x M.2 2230 E, 1x M.2 2280 M, 1x M.2 3042/3052 B co-lay
- AIO/DIO: N/A
- 40-pin GP bus: 1
- 100-pin GP bus: N/A
- MIPI-CSI: N/A
- SIM slot: Yes
- Others: Infineon TPM SLB9670 on board

Connectivity

- Ethernet: 2x GbLAN (Intel i210 AT) support TSN
- WiFi: Optional (via. M.2 2230)
- Bluetooth: Optional (via. M.2 2230)
- LTE/4G: Optional (via. M.2 3042/3052)

Cooling

- Cooling: Passive cooling (fanless)

Accessories

- Accessories: 1x RTC battery; 1x passive heatsink

📄 Specifications

Scan this QR code to view the product
All details, up-to-date prices and availability