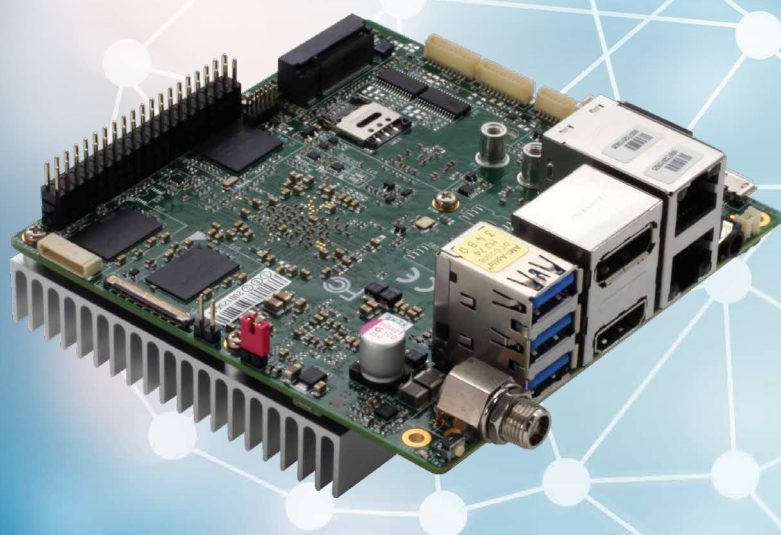




UP Squared Pro

The ultimate Edge solution - Unleash the future of industrial automation and AI vision with 5G connectivity to shorten the deployment process and take your solutions to the **PRO** level.



UP² Pro - intelligent industry, powered by Intel.

After the success of UP², an official Intel AI & IoT platform, now we give you the UP² Pro.

UP² Pro is built for industrial use with multiple serial ports, multiple LAN ports, 5G support, and various M.2 expansion slots. UP² Pro also enables the next generation industrial automation and AI solutions, users can easily add on AI accelerators, powered by extension capabilities to Intel® Movidius™ Myriad™ X or the upcoming Intel Movidius™ chip.

UP² Pro embedded with 40-pin HAT expansion and versatile I/O (SATA3, M.2 2230 E key, M.2 2280 M key, M.2 3052 B Key) to allow for seamless integration. UP² Pro is ready to connect for 5G, AI accelerator, WiFi, Bluetooth.

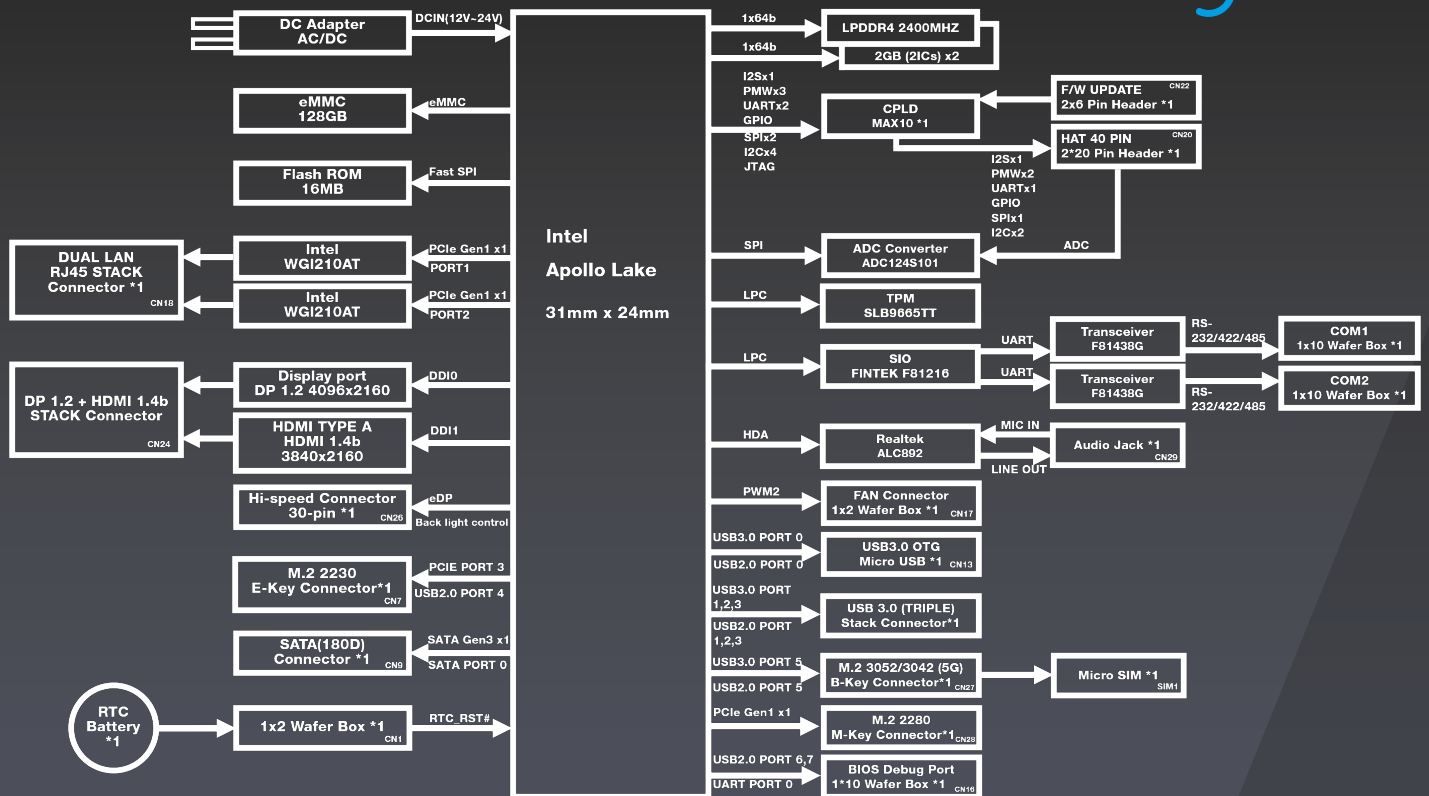
With Intel processors, FPGAs and accelerators deliver power-efficient performance and specialized capabilities for new industrial use cases, like Automation, Robotics, Drones, Machine Vision, and Internet of Things.

SPECIFICATIONS

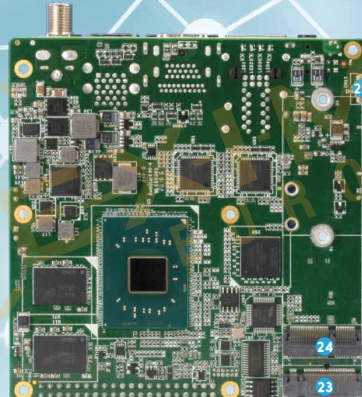
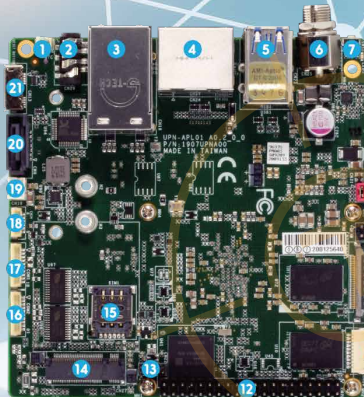
CPU	Intel® Celeron® Duo Core N3350 (up to 2.4 GHz) Intel® Pentium® Quad Core N4200 (up to 2.5 GHz) Intel Atom® Quad Core x7-E3950 Processor (up to 2.0 GHz)
Graphics	Intel® HD Graphics 500 for Celeron® N3350 Intel® HD Graphics 505 for Pentium® N4200 / Intel Atom® x7-E3950
FPGA	Intel® FPGA Altera MAX 10
Memory	2GB / 4GB / 8GB
Storage	32GB / 64GB
Expansion Slot	1x M.2 E key 2230 1x M.2 M key 2280 1x M.2 B key co-lay 3042/3052
Ethernet	2 x GbLAN (Intel i210 AT) support TSN
Audio	ALC892 for Audio Out/Mic In
USB	3x USB 3.0 Type A 1x USB 3.0 OTG

Display	1 (HDMI 1.4b) 1x DP 1.2 (4K@60hz) 1x eDP
COM Ports	FINTEK F81216, 2x RS232/422/485
UART	2x UART (Tx/Rx) debug port (pin header)
HDD interface	1x SATA 3.0
SIM slot	1x SIM slot
TPM	Infineon TPM SLB9670 on board
Expansion HAT (40pin)	GPIO, SPI, I2C, I2S, PWM, UART, 3V3, 5V, GND, GPIO
Power	12V~24V DC-IN (lockable connector) 1x Power Button / LED
Dimension	101.6 x 101.6mm (4" x 4")
Compatible OS	Microsoft Windows 10 full version, Linux (Ubuntu, Yocto)

block diagram



- 1) RTC Battery Connector
- 2) Audio
- 3) LAN Dual Port
- 4) HDMI 1.4b + DP 1.2 Port
- 5) USB 3.0 Triple Port
- 6) DC Jack
- 7) PowerButton
- 8) Power Pin Header (12V)
- 9) Power Pin Header (24V)
- 10) eDP
- 11) USB Panel
- 12) 40-pin HAT connector



- 13) BIOS update
- 14) M.2 B Key co-lay 3042/3052
- 15) SIM card
- 16) 10-pin RS232/422/485 header
- 17) 10-pin RS232/422/485 header
- 18) Power Pin-header (Power switch & reset)
- 19) SATA Power
- 20) SATA
- 21) USB 3.0 OTG
- 22) FAN
- 23) M2 E Key 2230
- 24) M2 M Key 2280

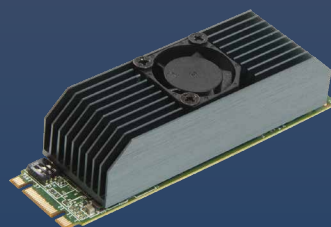
Artificial Intelligence on the edge

Expand your UP Squared Pro board to fit your exact needs



M.2 2230 WiFi kit

Intel® Wireless-AC 9260
(802.11ac, Bluetooth 5.0)



UP AI Core XM 2280

AI hardware accelerator with
2x Intel® Movidius™ Myriad™ X



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