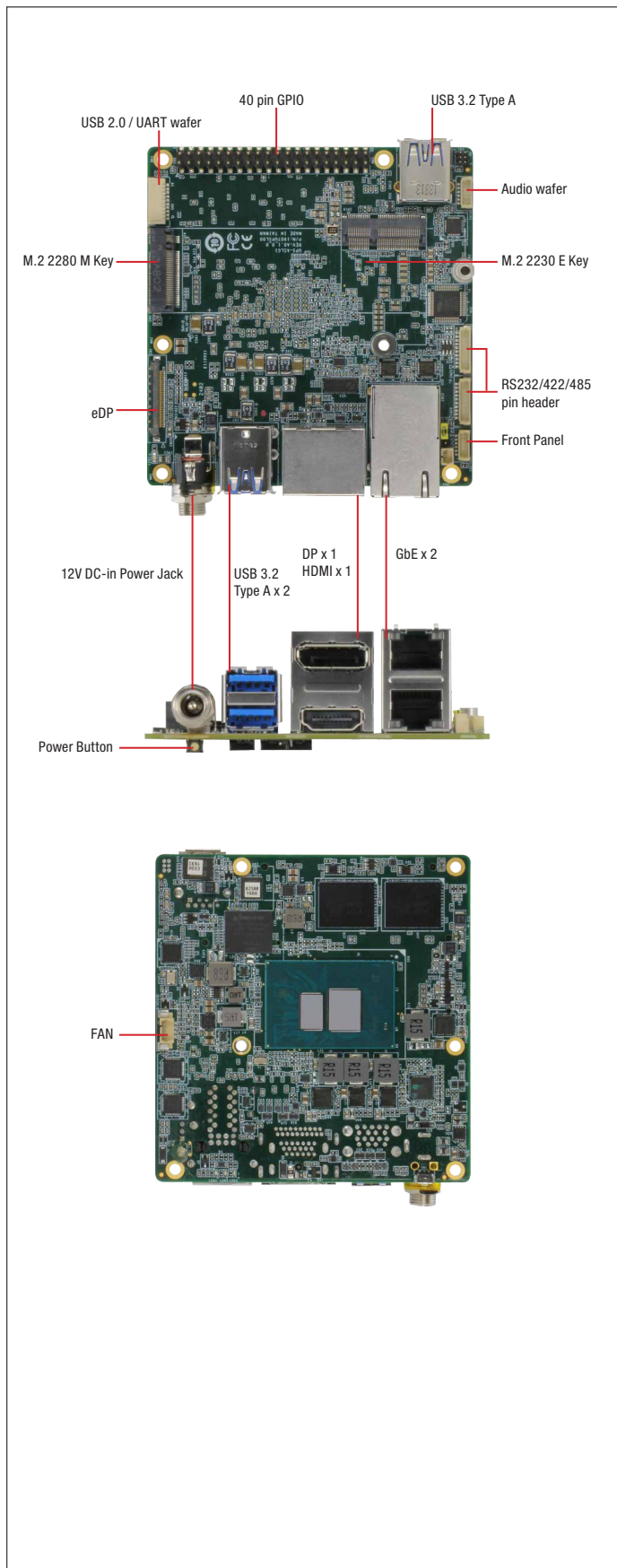


# UP Squared 7100 PRELIMINARY

UP Squared 7100 Developer Board with Intel® Processor N-series SoC



## Features

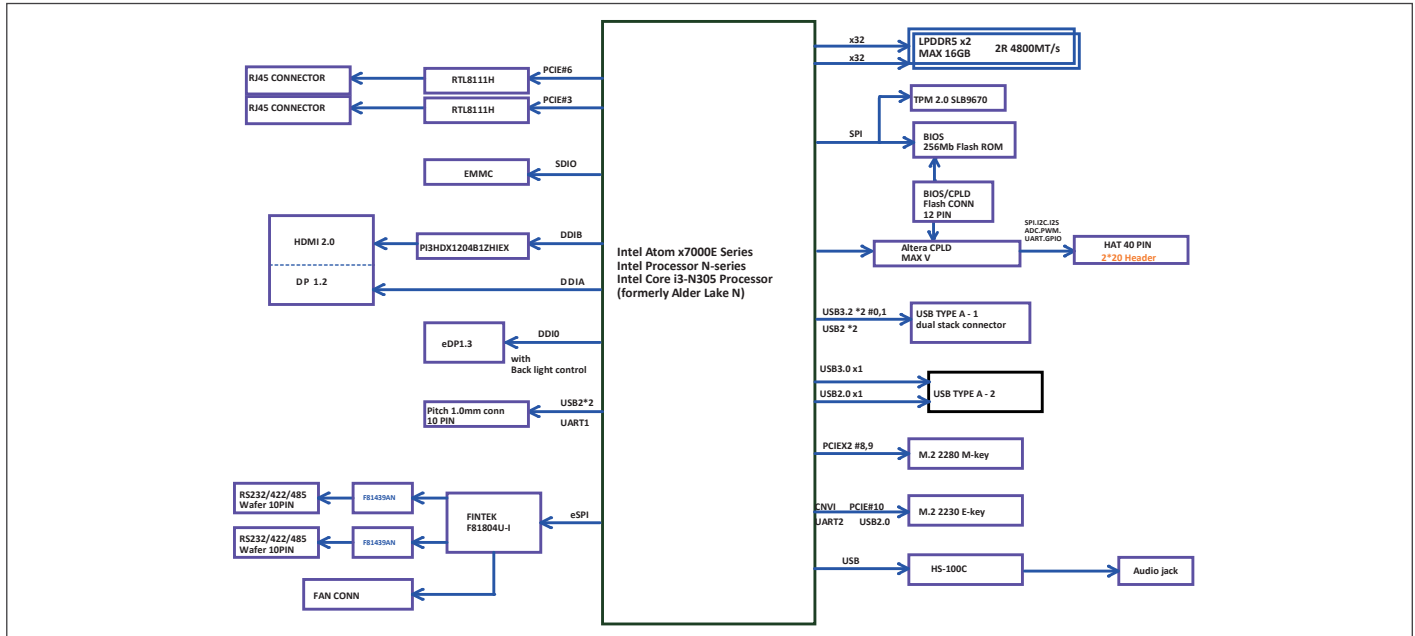
- Intel® Processor N-series SoC
- Onboard LPDDR5 Memory up to 16GB
- Onboard eMMC Storage up to 128GB
- Gb Ethernet (full speed) RJ-45 x 2
- USB 3.2 Type A x 3
- 40 pin GPIO x 1
- DP 1.2 / HDMI 2.0b / eDP 1.3
- RS232/422/485 x 2
- M.2 2230 E-Key x 1
- M.2 2280 M-Key x 1
- TPM 2.0
- 12V DC-in



## Specifications

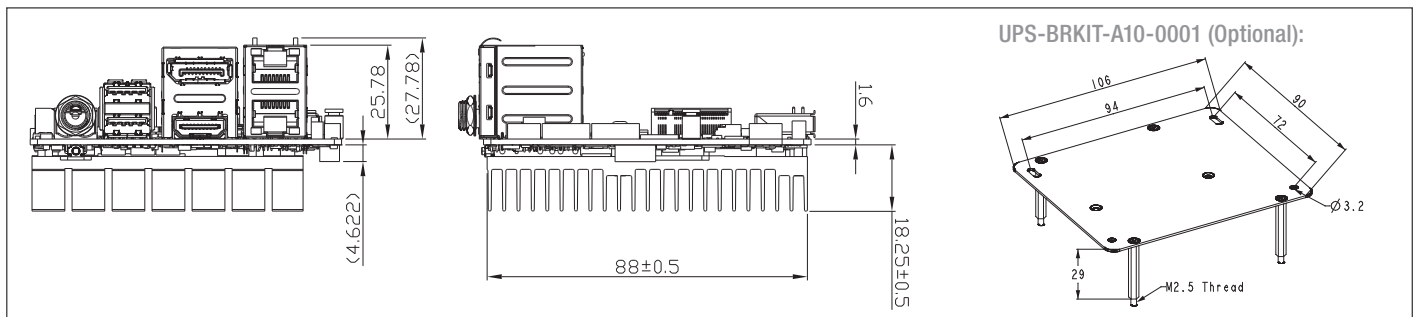
System	
Processor	Intel® Processor N97 Intel® Processor N100
Graphics	Intel® UHD Graphics for 12th Gen Intel® Processors
Memory	Up to 16GB LPDDR5
Storage	Up to 128GB eMMC
I/O	HDMI 2.0b x 1 DP 1.2 x 1 eDP 1.3 x 1 Audio wafer (Line out + MIC in) x 1 RS-232/422/485 via wafer x 2
Camera	—
USB	USB 2.0 x 2 (from 10 pin wafer x 1) USB 3.2 Gen 2 Type A x 3
Expansion	40 pin GPIO x 1 M.2 2230 E-Key x 1 (PCIe x1, USB2.0 x1) M.2 2280 M-key x 1 (PCIe x2)
Display Interface	HDMI 2.0b x 1 DP 1.2 x 1 eDP 1.3 x 1
Ethernet	Gb Ethernet (full speed) RJ-45 x 2
Security	Onboard TPM 2.0
RTC	Yes
OS Support	Microsoft Windows 10/11 Ubuntu 22.04 LTS Yocto 5.1
Power Requirement	
Power	12V DC-in
Power Supply Type	AT/ ATX (ATX as default)
Power Consumption (Typical)	15W~37W
Mechanical	
Dimension	3.37" x 3.54" (85.6 mm x 90 mm)
Net Weight	0.41 lbs (0.19kg)
Gross Weight	0.66 lbs (0.3kg)
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°) / 0.5 airflow
Operation Humidity	0% ~ 90% relative humidity, non-condensing
MTBF	1,224,238
Certification	CE/FCC Class A, RoHS Compliant, REACH

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

Part number	CPU	Memory	Storage
UPS-ASLN100-A10-0432	Intel® Processor N100	4GB	32GB
UPS-ASLN100-A10-0864	Intel® Processor N100	8GB	64GB
UPS-ASLN97-A10-0432	Intel® Processor N97	4GB	32GB
UPS-ASLN97-A10-0864	Intel® Processor N97	8GB	64GB
UPS-ASLN97-A10-16128	Intel® Processor N97	16GB	128GB

## Optional Accessories

Part Number	Description
EP-PS12V6A72WFJ	12V 6A 72W Power Supply. Cable Length 1200mm DC Jack: 5.5x2.5mm Lock Type FJ-SW20251206000
EP-CBPC125V3PLUS	US Power Cord Plug 10A 125V Connector SP-305B+IS-14 SVT 18/3 60 0.75mm 1800±30mm cable length Black UL
EP-CBPC250V3PEU	EU Power Cord Plug 16A 250V Connector 10A 250V VDE H05WV-F 3G 0.75mm 1800±30mm cable length
EP-CBPC250V3PLUK	UK Power Cord Plug 13A 250V 3X 0.75mm²1800±30mm cable length
EP-CBUS10PFL01	USB 2.0 TypeA to 10pin header cable
1701100180	COM Cable. 150mm. D-SUB 9P Male to 10pin header

## Packing List

- UP Squared 7100 with heatsink