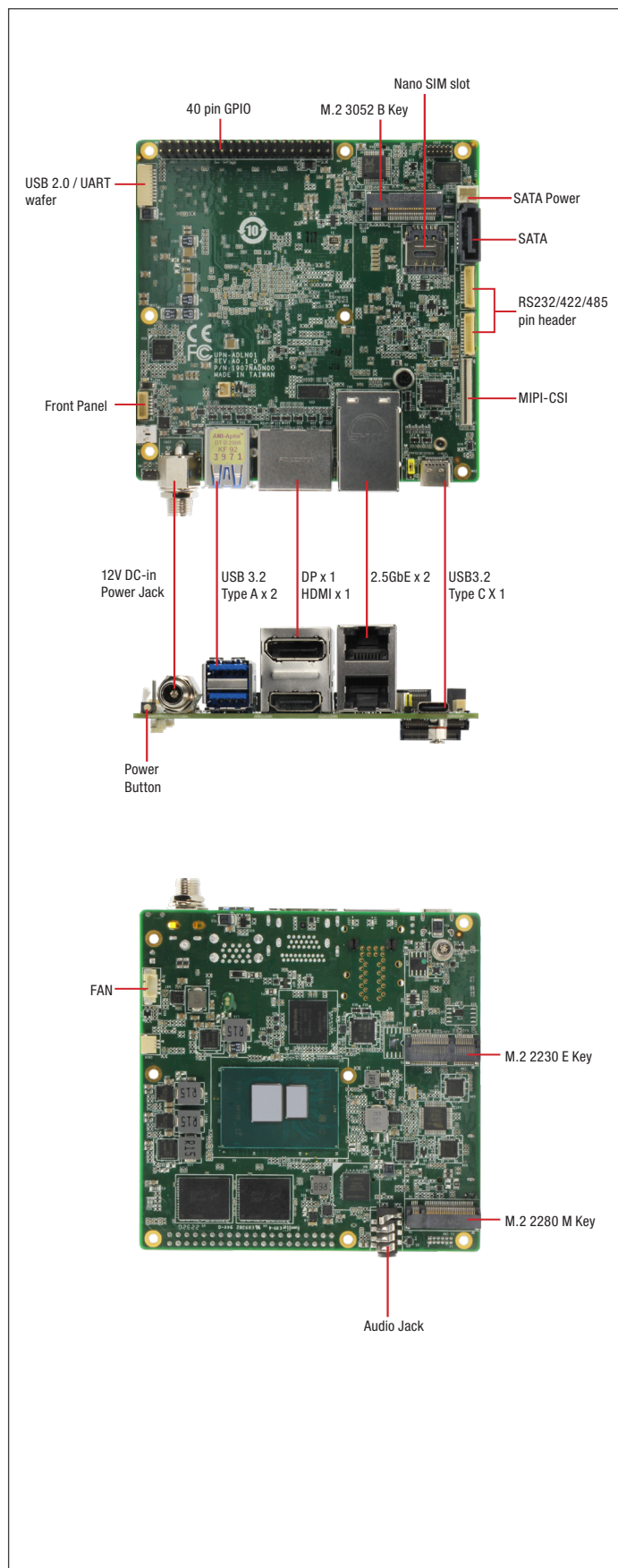


UP Squared Pro 7000

UP Squared Pro 7000 Developer Board with Intel Atom® x7000E Series, Intel® Processor N-series, and Intel® Core™ i3-N305 Processor



Features

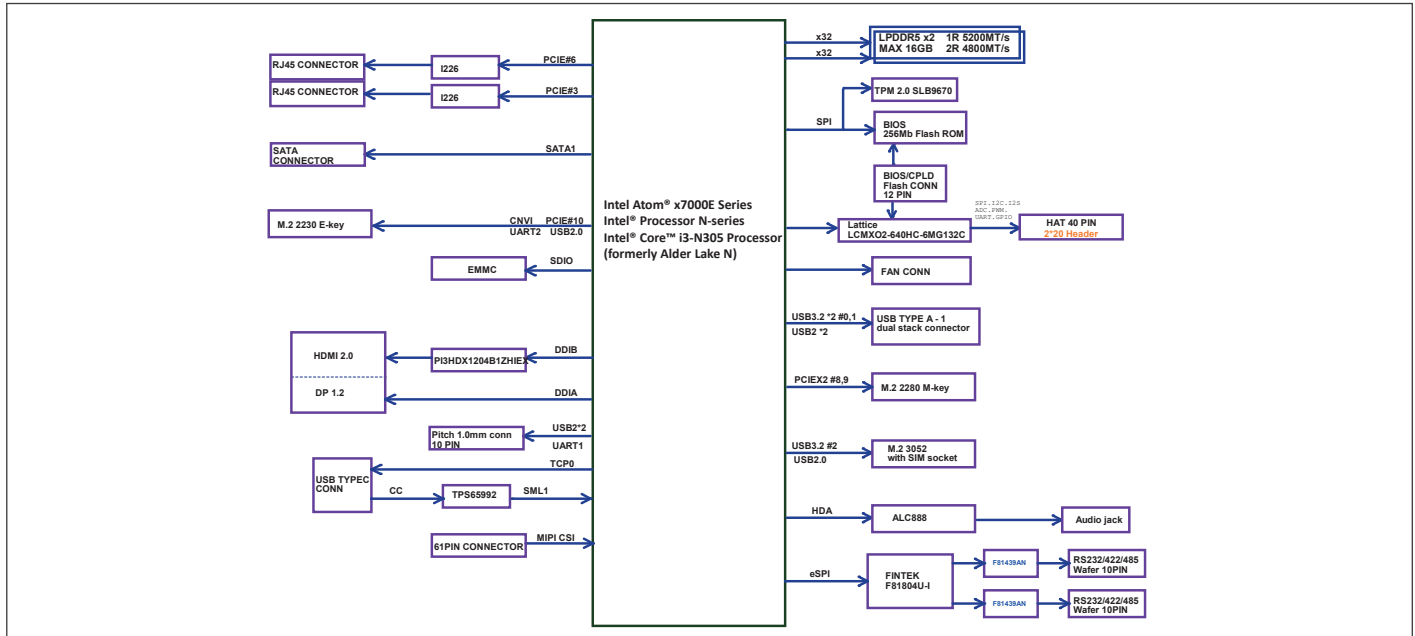
- Intel Atom® x7000E Series, Intel® Processor N-series, and Intel® Core™ i3-N305 Processor
- Onboard LPDDR5 Memory up to 16GB
- Onboard eMMC Storage up to 64GB
- 2.5GbE x 2 (Intel® I226-IT)
- USB 3.2 x 3 (Type A x 2, Type C x 1)
- 40 Pin GPIO x 1
- DP 1.2 x 1/DP 1.4a x 1/HDMI 2.0b x 1
- RS232/422/485 Wafer x 2
- M.2 2230 E-Key/M.2 2280 M-Key/M.2 3052 B-Key x 1
- SATA 6Gb/s x 1
- TPM 2.0
- 12V DC-in, 6A



Specifications

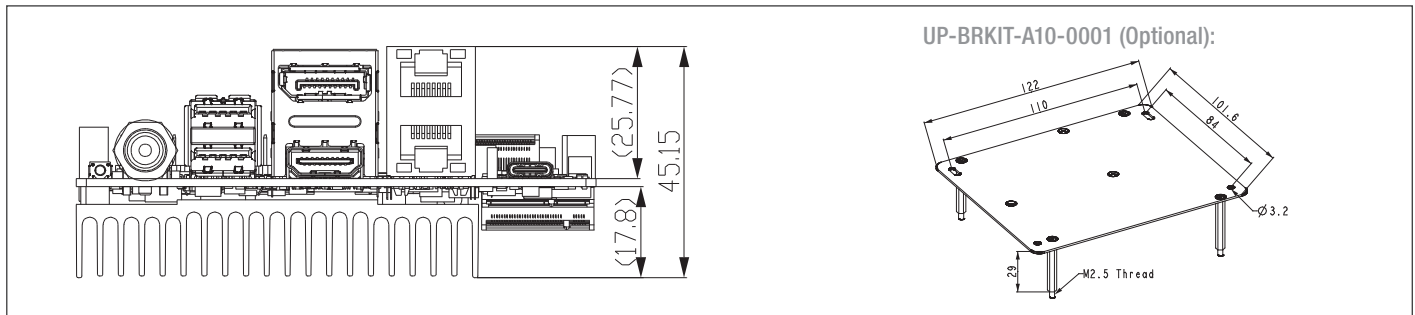
System	
Processor	Intel® Core™ i3-N305 Intel Atom® x7425E Intel® Processor N97 Intel® Processor N50
Graphics	Intel® UHD Graphics for 12th Gen Intel® Processors
Memory	Up to 16GB onboard LPDDR5
Storage	Up to 64GB onboard eMMC
I/O	HDMI 2.0b x 1 DP 1.2 x 1 DP 1.4a via USB Type C Audio Jack x 1 (Mic-in+Line-out) RS-232/422/485 via 10 Pin header x 2
Camera	MIPI-CSI via 61-Pin FPC Connector x 1
USB	USB 2.0 x 2 (via 10 Pin Header x 1) USB 3.2 Gen 2 (Type-A) x 2 USB 3.2 Gen 2 (Type-C) x 1
Expansion	40 Pin GPIO x 1 M.2 2230 E-Key x 1 (CNVi, PCIe Gen 3 [x1], USB 2.0) M.2 2280 M-Key x 1 (PCIe Gen 3 [x2], USB 2.0) M.2 3052 B-Key x 1 (USB 3.2 Gen 2 only) with Nano SIM slot (USB 3.0) SATA 6Gb/s x 1
Display Interface	HDMI 2.0b x 1 DP 1.2 x 1 DP 1.4a via USB Type C
Ethernet	2.5GbE x 2 (Intel® I226-IT)
Security	Onboard TPM 2.0
RTC	Yes
OS Support	Windows 10 IoT Enterprise Ubuntu 22.04 LTS Yocto 4.0
Power Requirement	
Power	12V DC-in
Power Supply Type	AT/ATX (ATX as default)
Power Consumption (Typical)	26W~35W
Mechanical	
Dimension	4" x 4" (101.6mm x 101.6mm)
Net Weight	0.44 lbs (0.20kg)
Gross Weight	0.77 lbs (0.35kg)
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) / 0.5 airflow, WiTAS1 -4°F ~ 158°F (-20°C ~ 70°C)
Operation Humidity	0% ~ 90% relative humidity, non-condensing
MTBF	422,053 Hours
Certification	CE/FCC Class A, RoHS Compliant, REACH

Block Diagram



Dimension

Unit: mm



Ordering Information

Part number	CPU	Memory	Storage	Operating Temp
UPN-ADLN50-A10-0432	Intel® Processor N50	4GB	32GB	0°C ~ 60°C
UPN-ADLN97-A10-0432	Intel® Processor N97	4GB	32GB	0°C ~ 60°C
UPN-ADLN97W1-A10-0432	Intel® Processor N97	4GB	32GB	-20°C ~ 70°C
UPN-ADLN97-A10-0864	Intel® Processor N97	8GB	64GB	0°C ~ 60°C
UPN-ADLNx25E-A10-0864	Intel Atom® x7425E	8GB	64GB	0°C ~ 60°C
UPN-ADLNi3-A10-1664	Intel® Core™ i3-N305	16GB	64GB	0°C ~ 60°C

Packing List

- UP Squared Pro 7000 with heatsink

Optional Accessories

Part Number	Description
1255X00032	(TF)AC/DC Adapter.Input AC.100~240V.Output DC.12V.MAX 72W.6.0A.180D.W/ LOCK.EDAC.EA10681U(120)
1702031803	(TF)POWER CORD.3P-250V 10A 180D.1.8M.VDE.FAN-JET.YP-22/YC-12 (for EU)
1702031802	(TF)POWER CORD.3P-125V 10A 180D.1.8M.USA.FANJET.YP12/YC-12 (for USA)
170203180J	Power cord for UK
170203180E	(TF)Power cord.3P.125V/7A.1.8M.PSE YP12/YC12 Certificat (for Japan)
170203180B	Power cord for China
1702031811	Power cord for Taiwan
1709070500	SATA cable
1702150155	SATA power cable (15cm)
1702150306	SATA power cable (30cm)
1701100180	COM Cable
UPCR-CAMB-A10-0001	MIPI-CSI Camera RVP Converter Kit for UP Squared Pro 7000/UP Squared i12/ UP Xtreme i12
UPCR-HDMI-A10-0001	HDMI IN carrier board for for UP Squared Pro 7000/UP Squared i12/UP Xtreme i12
UPCR-CAN1-A10-0001	UP CAN Bus Carrier Board with USB/UART interface for UP product line
UPN-BRKIT-A10-0001	Bracket KIT of board fixture for all UP series