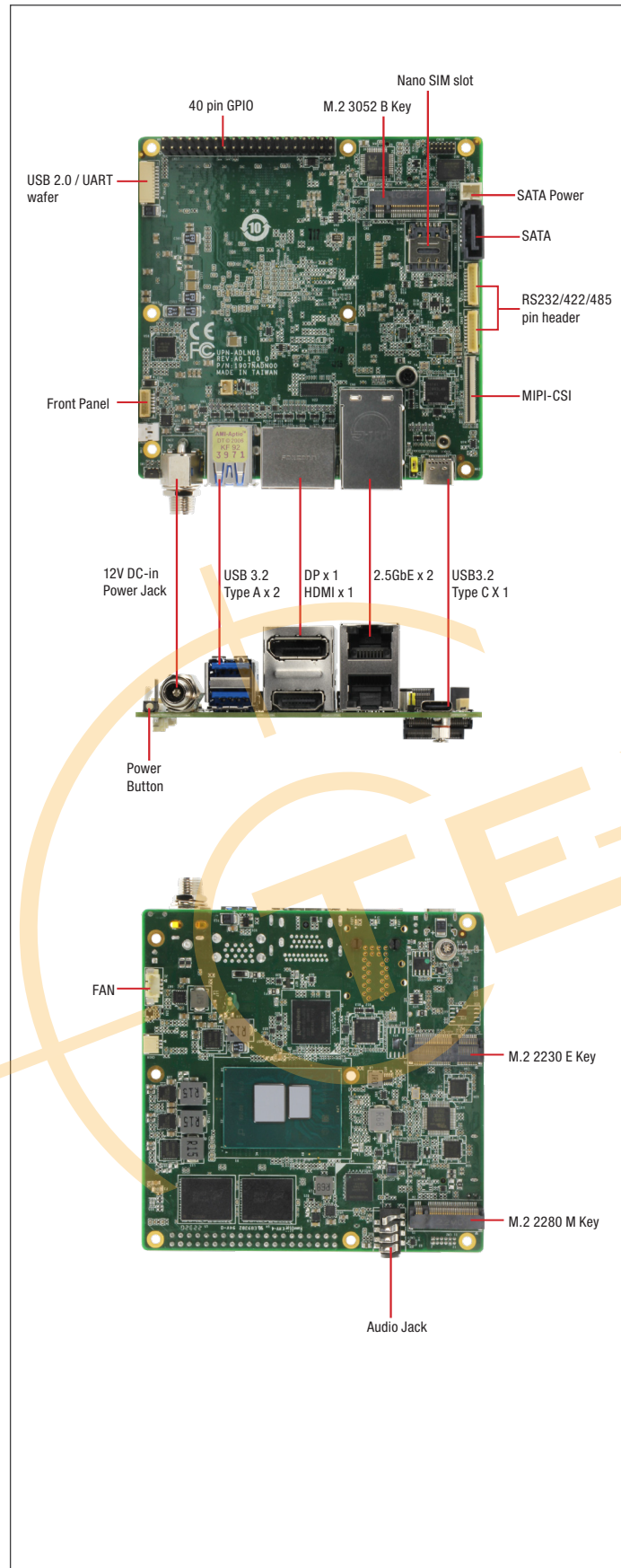


UP Squared Pro 7000

UP Squared Pro 7000 Developer Board with Intel Atom® x7000E/x7000RE Series, Intel® Processor N-series, and Intel® Core™ i3-N305 Processor



Features

- Intel Atom® x7000E/x7000RE 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



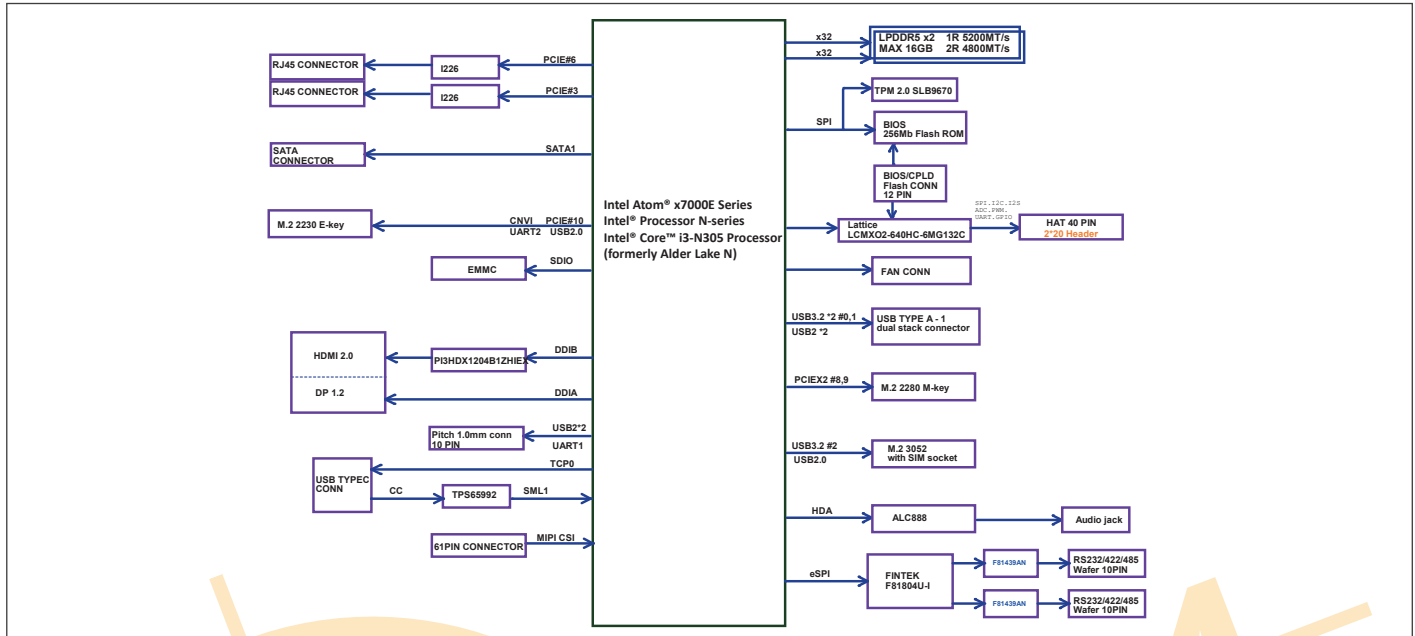
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Specifications

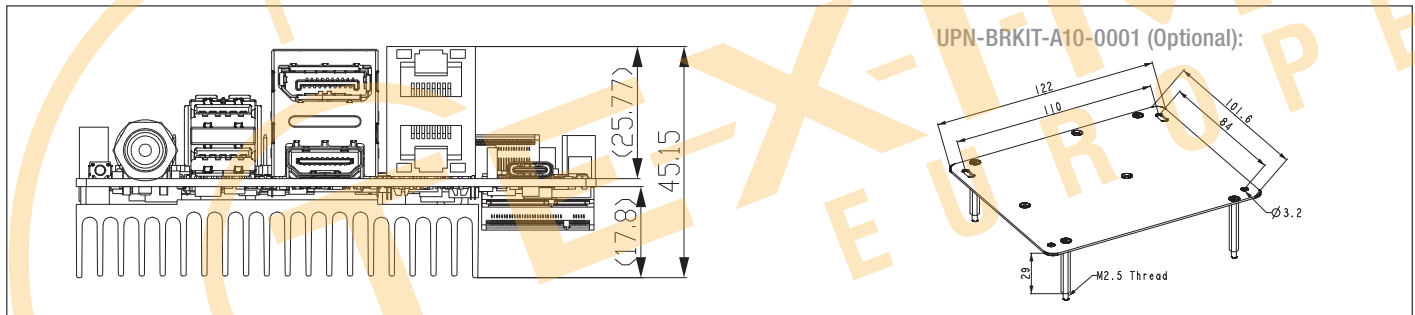
System	
Processor	Intel® Core™ i3-N305 Intel Atom® x7425E Intel Atom® x7433RE Intel Atom® x7835RE Intel® Processor N97 Intel® Processor N50
Graphics	Intel® UHD Graphics for 12th Gen Intel® Processors
Memory	Up to 16GB onboard LPDDR5
Storage	Up to 64GB onboard eMMC
I/O	HDMI 2.0b x 1 DP 1.2 x 1 DP 1.4a 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]) 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-ADLN25E-A10-0864	Intel Atom® x7425E	8GB	64GB	0°C ~ 60°C
UPN-ADLN33REW1-A10-0864	Intel Atom® x7433RE	8GB	64GB	-20°C ~ 70°C
UPN-ADLN35REW1-A10-16128	Intel Atom® x7835RE	16GB	128GB	-20°C ~ 70°C
UPN-ADLN13-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)
170X000799	(TF)Power Cord. 3P. 125V. 10A. 180D. USA. 1. 8M. I-SHENG. SP305B/IS-14N SVT 18/3 60C CT-12 Black
170X000800	(TF)Power Cord. 3P. 250V. 10A. VDE. 1. 8M. I-SHENG. SP23/IS-14N H05VV-F 3G 0. 75 CT-12 Black
170X000815	(TF)Power Cord. 3P. 250V. 10A. 180D. CHINA. 1. 8M. I-SHENG. SP506A/IS-14N RVV 300/500V 3X0. 75 CT-12 Black
170X000806	(TF)Power Cord. 3P. 125V. 7A. 1. 8M. I-SHENG. U4NCB3T6B1218002. SP305B/IS-14N VCTF. Black. BSMI
170X000806	(TF)Power Cord.3P.125V/7A.PSE Certificate.1.8M.I-SHENG.U4NCB3P6C1218002.SP305B/IS-14N VCTF 0.75/3 Black 1.8M
170X000810	(TF)Power Cord.3P.250V.16A.Korea.1.8M.I-SHENG.SP23/IS-14N H05VV-F 3G 0.75 CT-12 Black
170X000805	(TF)Power Cord.3P.250V.10A.SWISS.1.8M.I-SHENG.SP-027C/IS-14N H05VV-F 3G 0.75mm CT-12 Black
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

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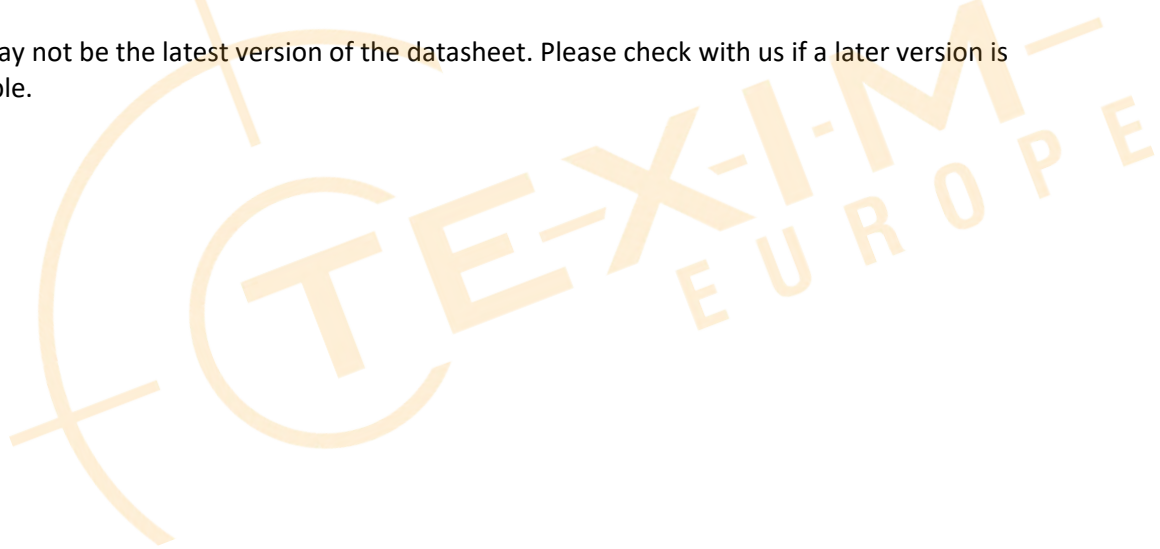
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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