

UP Squared 7100

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

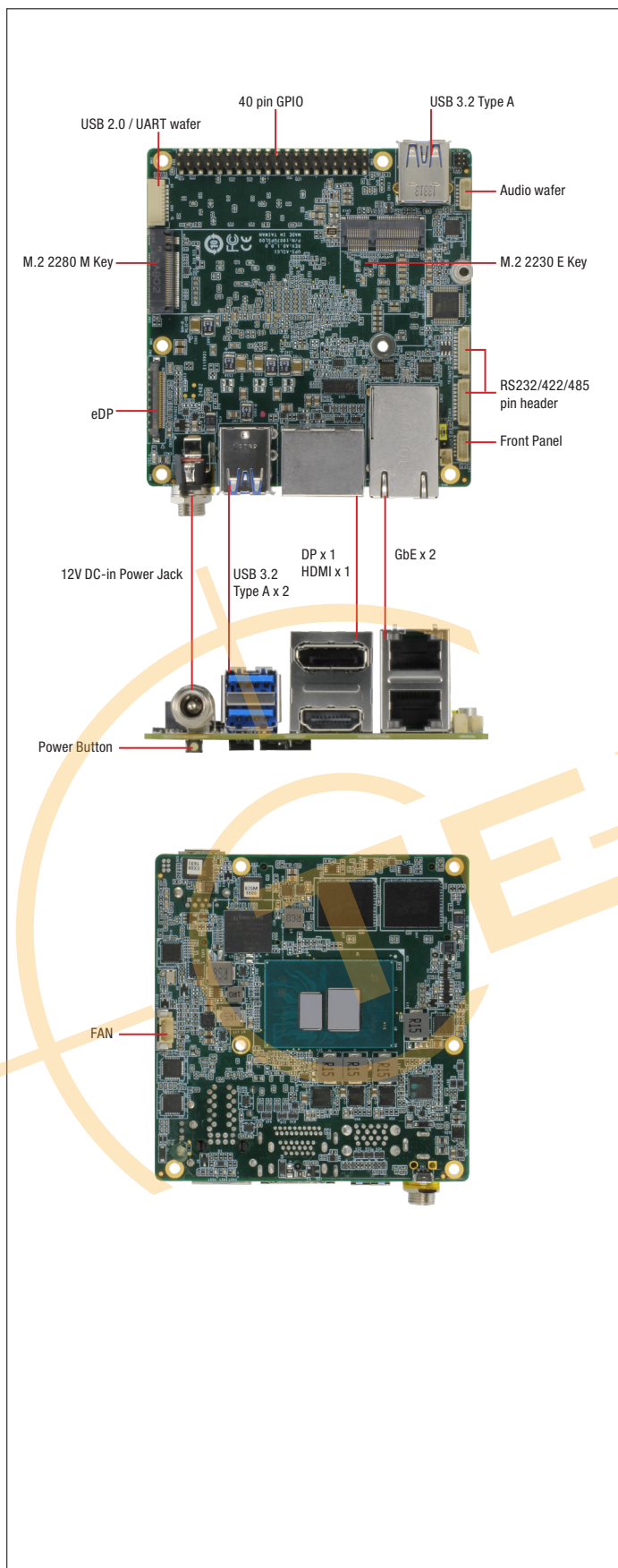
Features

- 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



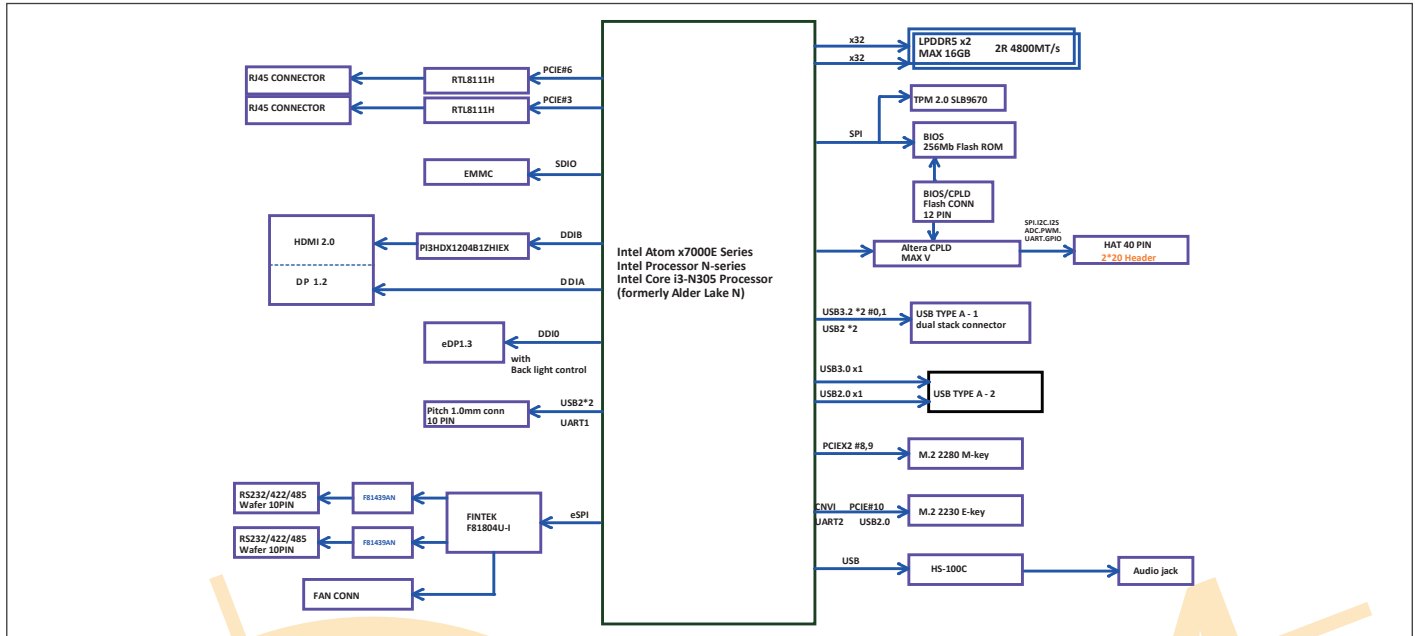
Specifications

System	
Processor	Intel® Processor N97 Intel® Processor N100 Intel Atom® x7433RE Intel Atom® x7835RE
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°C) / 0.5 airflow, WiTAS1 -4°F ~ 158°F (-20°C ~ 70°C) with active cooler
Operation Humidity	0% ~ 90% relative humidity, non-condensing
MTBF	1,224,238
Certification	CE/FCC Class A, RoHS Compliant, REACH



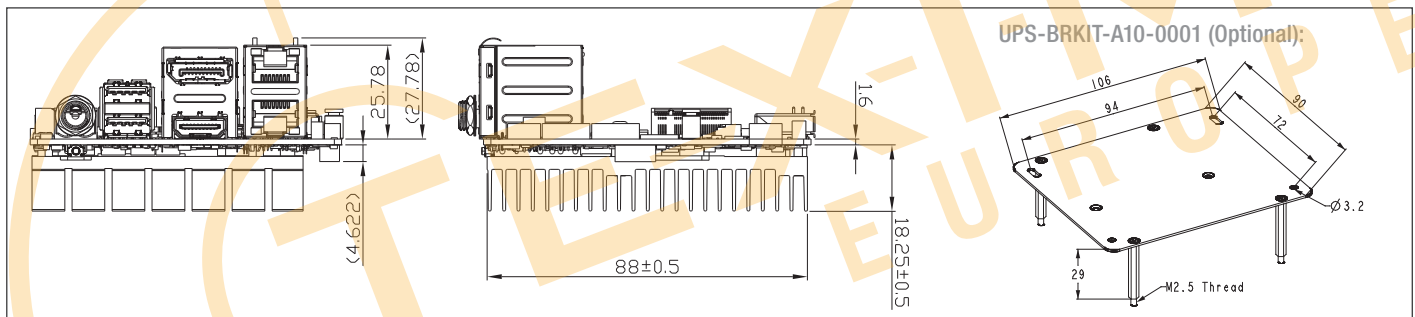


Block Diagram



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
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
170X000803	(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
1701100180	COM Cable
170010015G	UART to USB cable
9651210000	Wireless LAN Kit M.2 2230 802.11ax/ac/a/b/g/n + BT5.2,2.4G/5G/6G,with 2 sets of cable & antenna (Intel AX210)
9651885200	Wireless LAN Kit M.2 2230 802.11ax/ac/a/b/g/n + BT5.2,2T2R,with 2 sets of cable & antenna (Enli,ENL-8852CE)

Packing List

- UP Squared 7100 with heatsink

Disclaimer

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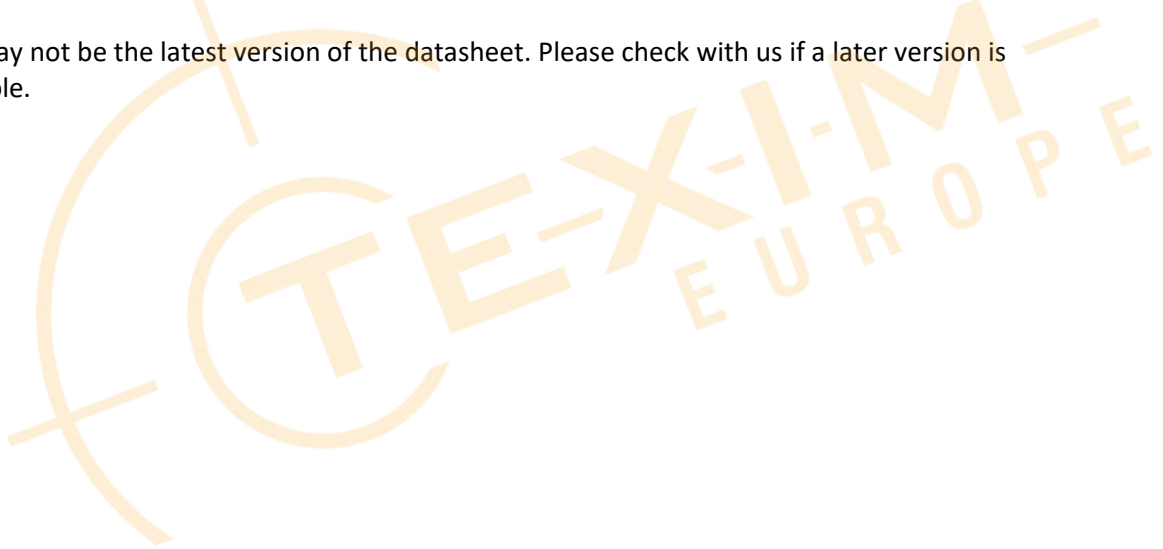
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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.





Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com



The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

T: +32 (0)2 462 01 00
E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
E: uk@texim-europe.com



Germany

Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com



Austria

Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
E: austria@texim-europe.com



Nordic

Stockholmsgade 45
2100 Copenhagen

T: +45 88 20 26 30
E: nordic@texim-europe.com



Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com