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

Features
- Intel Atom® x7000E Series, Intel® Processor N-series, and Intel® Core™ i3-N305 Processor (formerly Alder Lake-N)
- 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 III x 1
- TPM 2.0
- 12V DC-in, 6A

Specifications

System
- Processor: Intel® Core™ i3-N305
- Storage: Up to 16GB LPDDR5
- Memory: Onboard LPDDR5 up to 16GB
- Graphics: Intel® UHD Graphics for 12th Gen Intel® Processors

I/O
- Display Interface: HDMI 2.0b x 1
- USB 2.0/3.2: 10-pin header, Type-A x 2, Type-C x 1
- RS232/422/485: 2 x 10-pin header
- MIPI-CSI: 1 (CNVi, PCIe Gen 3 [x1], USB 2.0)

Expansion
- M.2 2230 E-Key x 1
- M.2 2280 M-Key x 1
- M.2 3052 B-Key x 1
- SATA III x 1

Power Requirement
- Power: 12V DC-in, 6A
- Power Supply Type: ATX
- Power Consumption (Typical): 26W~35W

Mechanical
- Dimension: 4” x 4” (101.6mm x 101.6mm)
- Net Weight: 0.44 lb. (0.20Kg)
- Gross Weight: 0.77 lb. (0.35Kg)

Environment
- Operating Temperature: 32°F ~ 140°F (0°C ~ 60°C) / 0.5 air flow, WiTAS 1 -4°F ~ 158°F (-20°C ~ 70°C)
- Operation Humidity: 0% ~ 90% relative humidity, non-condensing
- MTBF: 422,053
- Certification: CE/FCC Class A, RoHS Compliant, REACH

Note: All specifications are subject to change without notice.
UP Squared Pro 7000

Block Diagram

Dimension

Unit: mm

Ordering Information

<table>
<thead>
<tr>
<th>Part number</th>
<th>CPU</th>
<th>Memory</th>
<th>Storage</th>
<th>Operating Temp</th>
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</thead>
<tbody>
<tr>
<td>UPN-ADLN50-A10-0432</td>
<td>Intel® Processor N50</td>
<td>4GB</td>
<td>32GB</td>
<td>0°C ~ 60°C</td>
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<td>4GB</td>
<td>32GB</td>
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<td>Intel® Processor N57</td>
<td>4GB</td>
<td>32GB</td>
<td>-25°C ~ 70°C</td>
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<td>UPN-ADLN57-A10-0864</td>
<td>Intel® Processor N57</td>
<td>6GB</td>
<td>64GB</td>
<td>0°C ~ 60°C</td>
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<tr>
<td>UPN-ADLNX25E-A10-0864</td>
<td>Intel Atom® x7425E</td>
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<td>16GB</td>
<td>64GB</td>
<td>0°C ~ 60°C</td>
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Optional Accessories

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<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1255X00032</td>
<td>12VDC/6A Adapter</td>
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<tr>
<td>1702031803</td>
<td>Power cord for EU</td>
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<td>1702031802</td>
<td>Power cord for US</td>
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<td>170203180J</td>
<td>Power cord for UK</td>
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<td>1702031808E</td>
<td>Power cord for Japan</td>
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<td>1702031808B</td>
<td>Power cord for China</td>
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<td>1702031811</td>
<td>Power cord for Taiwan</td>
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<td>1709070500</td>
<td>SATA cable</td>
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<td>1702150155</td>
<td>SATA power cable (15cm)</td>
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<tr>
<td>1702150306</td>
<td>SATA power cable (30cm)</td>
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<tr>
<td>1701100180</td>
<td>COM Cable</td>
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Packing List

• UP Squared Pro 7000 with heatsink