UP Squared i12 Developer Board with 12th Generation Intel® Core™ i7/i5/i3/Celeron® Processor SoC (formerly Alder Lake-P)

Features
- 12th Generation Intel® Core™ i7/i5/i3/Celeron® Processor SoC
- Up to 16GB Onboard LPDDR5
- Up to 128GB Onboard SSD
- M.2 2230 E-Key/M.2 2280 M-Key/SATA III x 1
- 1GbE x 2
- HDMI 1.4b/DP 1.2 Connector x 1, DP 1.4a via USB Type-C x 1
- USB 3.2 Gen 2 (Type-A) x 2, USB 3.2 Gen 2 (Type-C) x 1, 10-pin USB 2.0 x 2/UART x 1
- Audio Jack x 1 (Line out + Mic in)
- 40-pin GPIO x 1
- 12V DC-in
- TPM 2.0

Specifications
- USB 3.2
  - Type A x 2
  - DP x 1
  - HDMI x 1
- GbE x 2
- 12V DC-in
- Power Supply Type AT/ATX (AT as default)
- Power Consumption (Typical) 26W~39W
- Dimension 3.37” x 3.54” (85.6mm × 90mm)
- Net Weight 0.59 lbs (0.27kg)
- Gross Weight 0.84 lbs (0.38kg)
- Operating Temperature 32°F ~ 140°F (0°C ~ 60°C) / 0.5 airflow
- Operation Humidity 0% ~ 90% relative humidity, non-condensing
- MTBF 522,716 Hours
- Certification CE/FCC Class A, RoHS Compliant, REACH

Note: All specifications are subject to change without notice.
UP Squared i12

Block Diagram

UP Boards

Packing List

- UP Squared i12 with Active Heatsink

Ordering Information

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PART NUMBER</th>
<th>CPU CORE</th>
<th>MEMORY STORAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS-ADLPCX-A10-0800</td>
<td>Intel Celeron® 7305E</td>
<td>1P + 1E</td>
<td>8GB</td>
</tr>
<tr>
<td>UPS-ADLPCX-A10-0800</td>
<td>Intel Core i7-12700PE</td>
<td>1P + 8E</td>
<td>8GB</td>
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<tr>
<td>UPS-ADLPCX-A10-0800</td>
<td>Intel Core i5-12500PE</td>
<td>4P + 8E</td>
<td>8GB</td>
</tr>
<tr>
<td>UPS-ADLPCX-A10-0800</td>
<td>Intel Core i5-1240P</td>
<td>4P + 8E</td>
<td>8GB</td>
</tr>
<tr>
<td>UPS-ADLPCX-A10-0800</td>
<td>Intel Core i7-1260P</td>
<td>4P + 8E</td>
<td>8GB</td>
</tr>
</tbody>
</table>

Optional Accessories

- 1255X00088 12V 120W 10A Power Adapter, DC Jack with lock
- EP-CBPC125V3PUS Power cord for US
- EP-CBPC250V3PUS Power cord for EU
- EP-CBPC500V3PUS Power cord for UK
- EP-CBUSB10PFL01 10pin header to USB2.0 Type A cable
- EP-CBUSB10LP0E01 10pin header to audio jack cable
- 71505003824 1pin header to audio jack cable

Dimension

Unit: mm

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