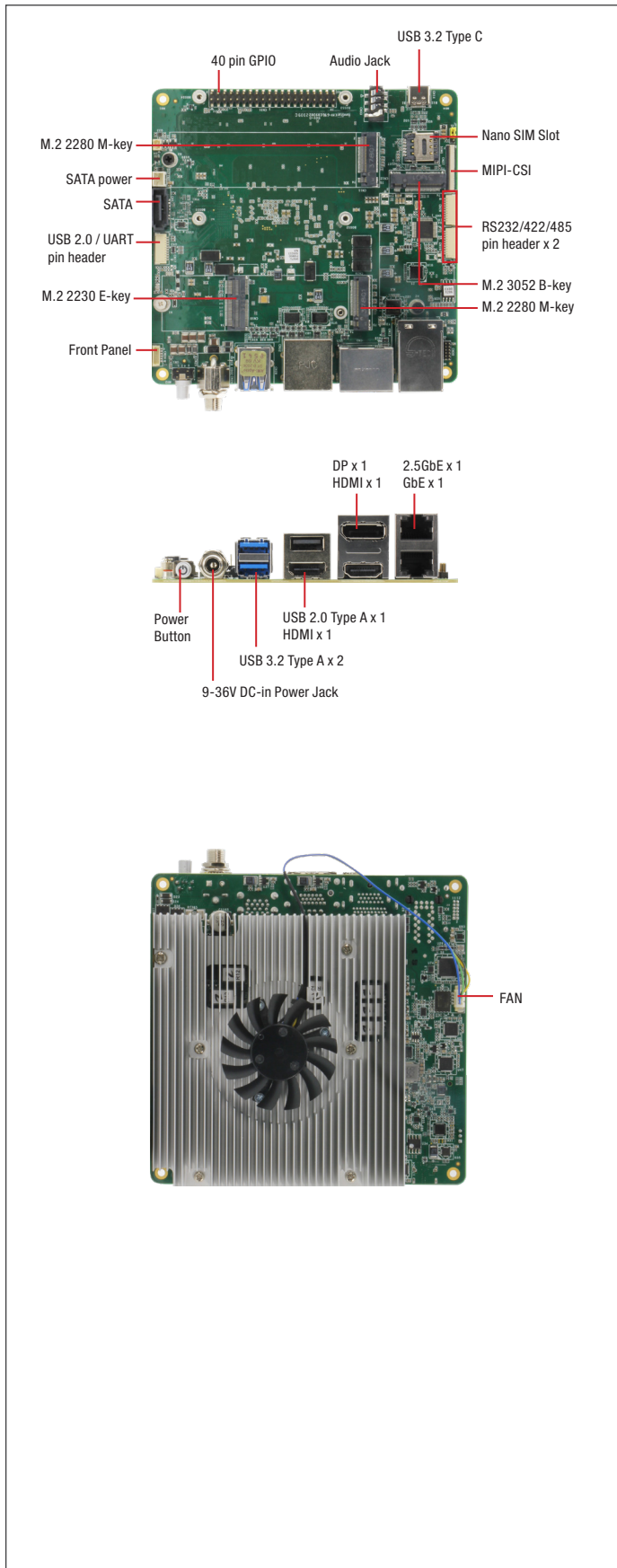




UP Xtreme ARL Developer Board with Intel® Core™ Ultra 5/7 Processors



Features

- Intel® Core™ Ultra 5/7 Processors
- Onboard Dual Channel LPDDR5 6400, up to 64GB
- Up to 4 Simultaneous Displays
- M.2 2280 M-Key x 2
- M.2 3052 B-Key x 1 (5G)
- M.2 2230 E-Key x 1 (Wi-Fi/BT)
- 2.5GbE x 1, GbE x 1
- USB 3.2 Gen 2 (Type A x 2, Type C x 1)
- Onboard TPM 2.0
- Wide DC Input 9-36V

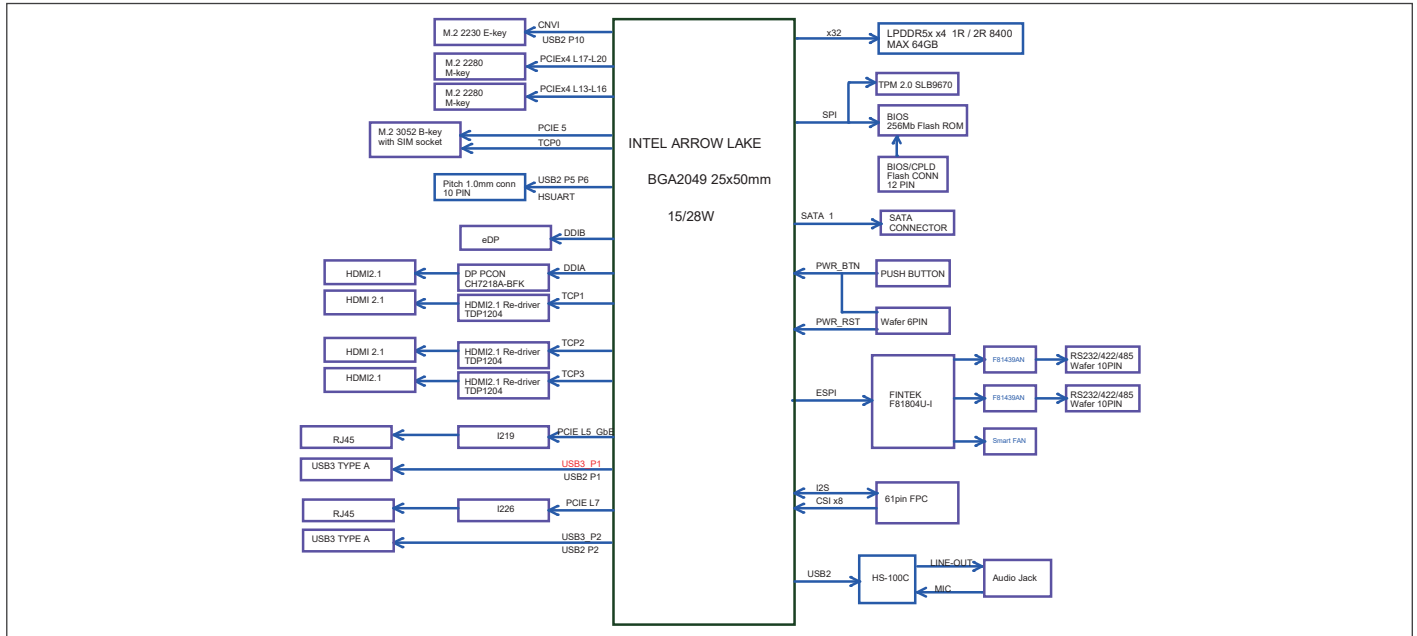


Specifications

| System | |
|-----------------------------|---|
| Processor | Intel® Core™ Ultra 5 processor 225H (18M Cache, up to 4.90 GHz) Intel® Core™ Ultra 7 processor 255H (24M Cache, up to 5.10 GHz) Intel® Core™ Ultra 7 processor 265H (24M Cache, up to 5.30 GHz) |
| Graphics | Intel® Arc™ graphics |
| Memory | Up to 64GB onboard LPDDR5 (Dual-Channel) |
| Storage | M.2 2280 M-Key x 2 SATA 6Gb/s x 1 |
| I/O | HDMI 2.1 x 2 DP 2.1 x 1 DP 1.4 via USB Type-C x 1 Audio Jack x 1 (Mic-in+Line-out) RS-232/422/485 10-pin header x 2 |
| Camera | MIPI-CSI via 61-Pin FPC Connector x 1 |
| USB | USB 2.0 x 2 (from 10 pin header x 1) USB 2.0 (Type-A) 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 (PCIe Gen 3 [x1], USB 2.0) M.2 2280 M-Key x 2 (PCIe Gen 4 [x4]) M.2 3052 B-Key x 1 (PCIe Gen 3 [x1], USB 3.2 Gen 2 [x1]) with Nano SIM slot (USB 3.0) SATA 6Gb/s x 1 |
| Display Interface | HDMI 2.1 x 2 DP 2.1 x 1 DP 1.4 via USB Type-C x 1 |
| Ethernet | 2.5GbE x 1 (via Intel® Ethernet Controller I226-IT), GbE x 1 (Intel® Ethernet Connection I219) |
| Security | Onboard TPM 2.0 |
| RTC | Yes |
| OS Support | Win 11 LTSC/ 10 LTSC Linux: Ubuntu 24.04 LTS, Yocto 5+ |
| Power Requirement | |
| Power | 9-36V DC-in (Lockable plug) |
| Power Supply Type | AT/ATX (ATX as default) |
| Power Consumption (Typical) | TBD |
| Mechanical | |
| Dimension | 4.74" x 4.82" (120.35mm x 122.5mm) |
| Net Weight | 12.7 lb. (0.36Kg) |
| Gross Weight | 1.32lb (0.6kg) |
| Environment | |
| Operating Temperature | WITAS1 -4°F ~ 158°F (-20°C ~ 70°C) with active cooler |
| Operation Humidity | 0% ~ 90% relative humidity, non-condensing |
| MTBF | TBD |
| Certification | CE/FCC Class A, RoHS Compliant, REACH |

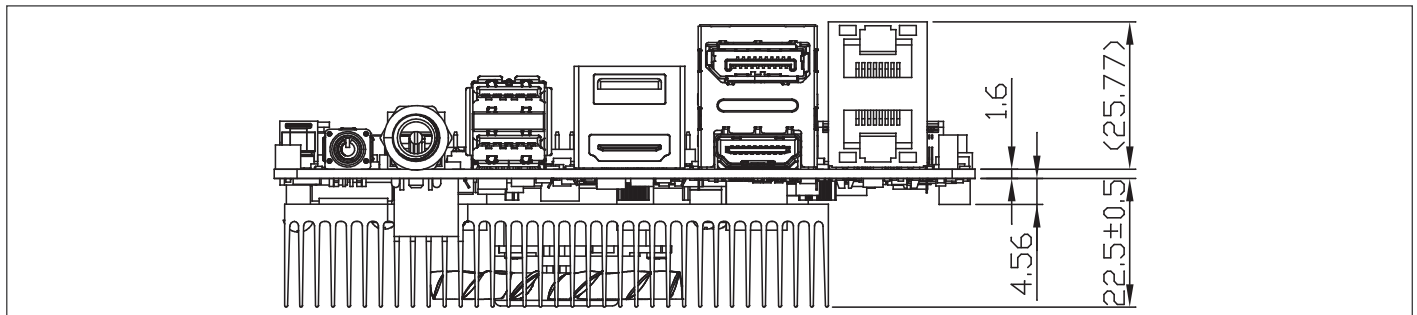


Block Diagram



Dimension

Unit: mm



Packing List

- UP Xtreme ARL with active cooler

Optional Accessories

| Part Number | Description |
|-------------|--|
| 1255X00071 | (TF)AC/DC Adapter.Input 100V~240V.output DC 19V.120W.6.32A.DC JACK w/Lock.FSP.FSP120-ABAN3/9NA1208548 |
| 170203180J | Power Cord for UK |
| 170X000799 | Power Cord for USA |
| 170X000800 | Power Cord for EU |
| 170X000815 | Power Cord for China |
| 170X000806 | Power Cord for Taiwan |
| 170X000803 | Power Cord for Japan |
| 170X000810 | Power Cord for South Korea |
| 170X000805 | Power Cord for Switzerland |
| 1702150155 | Power Cable.15P SATA(F).2P 2.0mm, Housing(PH).15cm |
| 1700070200 | SATA CABLE.7P 180D(F) w/lock.to 7P 90D(F) w/o, lock SATA.20cm |
| 9651210000 | Wireless LAN Kit M.2 2230 802.11ac/a/b/g/n + BT5.2,2.4G/5G/6G,with 2 sets of cable & antenna (Intel AX210) |

Ordering Information

| Part Number | CPU | Core | Memory | Thermal Solution |
|----------------------|---|-------------|--------|------------------|
| UPX-ARL225H-A10-1600 | Intel® Core™ Ultra 5 processor 225H (18M Cache, up to 4.90 GHz) | 6P+8E +2LPE | 16G | Active Cooler |
| UPX-ARL225H-A10-3200 | Intel® Core™ Ultra 5 processor 225H (18M Cache, up to 4.90 GHz) | 6P+8E +2LPE | 32G | Active Cooler |
| UPX-ARL255H-A10-3200 | Intel® Core™ Ultra 7 processor 255H (24M Cache, up to 5.10 GHz) | 6P+8E+2LPE | 32G | Active Cooler |
| UPX-ARL265H-A10-6400 | Intel® Core™ Ultra 7 processor 265H (24M Cache, up to 5.30 GHz) | 6P+8E+2LPE | 64G | Active Cooler |