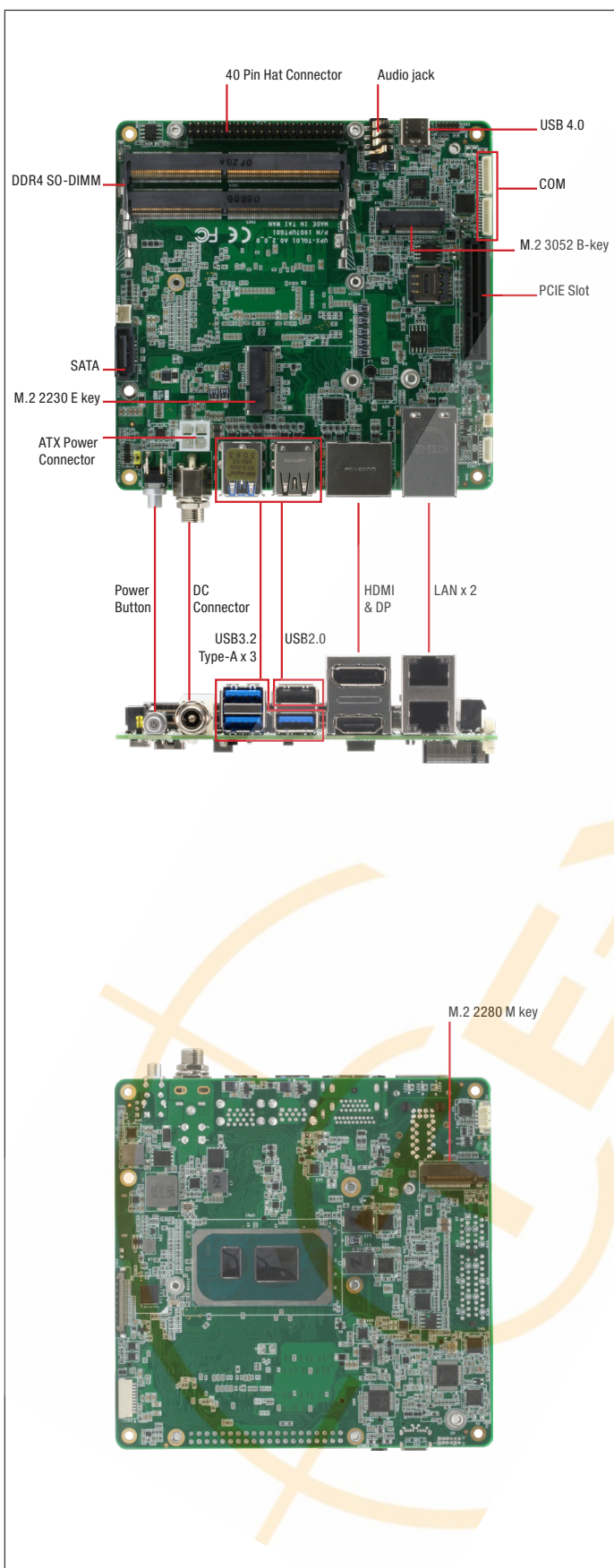


UP Xtreme i11 developer board with 11th generation Intel® Core™ i7/i5/i3/Celeron® Processor SoC (formerly Tiger Lake UP3)



## Features

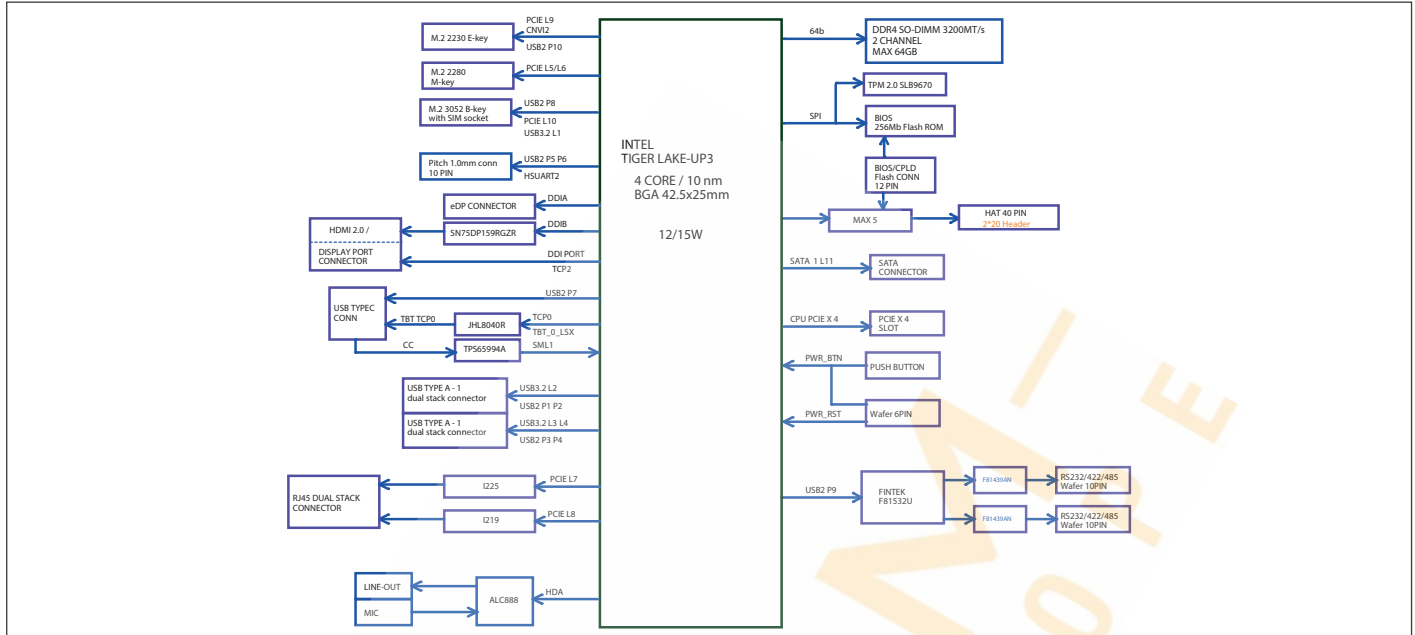
- 11th generation Intel® Core™ i7/i5/i3/Celeron® Processor SoC (formerly Tiger Lake UP3)
- DDR4 SO-DIMM Slot x 2 (up to 64GB)
- 40-pin HAT Connector
- Support 4 independent Displays
- Support 5G module via M.2 3052 B key
- Support AI module via M.2 2280
- Supports Intel AX210 WiFi 6 via M.2 2230
- Support USB 4.0
- PCIe x 4 slot



## Specifications

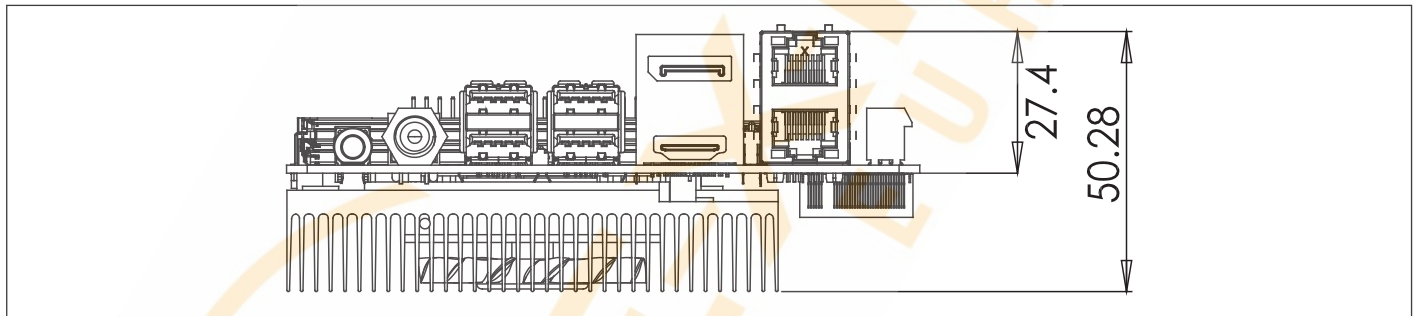
| System                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor             | 11th Gen Intel® Core™ Processor SoC<br>Core i7-1185G7E<br>Core i7-1185GRE<br>Core i5-1145 G7E<br>Core i5-1145GRE<br>Core i3-1115GRE<br>Celeron® 6305E                                                                                                                                                                                                                                                                                                                          |
| Graphics              | Intel® Iris® Xe graphics                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| I/O                   | RJ45 Ethernet Connector x 2<br>HDMI/DP Stack Connector x 1<br>Power Button / LED x 1<br>DC Connector (Lockable) x 1<br>10-pin USB 2.0 x 2 / HSUART x 1<br>SATA Connector with Power Connector (5V, GND) x 1<br>4pin Fan Connector x1<br>6pin Front Panel Header<br>M.2 2230 E Key x 1<br>M.2 2280 M Key x 1<br>USB 4.0<br>40-pin HAT Connector x 1<br>M.2 3052 B Key x 1 with SIM<br>10-pin RS232/422/485 Pin Header x 2<br>Alternative 4pin ATX Connector Behind DC Connector |
| Camera                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| USB                   | USB 3.2 Gen 2 Type A x 3<br>USB 2.0 x 1<br>USB4.0 x 1 Type-C                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Expansion             | M.2 2230 E Key x 1<br>M.2 2280 M Key x 1<br>M.2 3052 B Key x 1<br>40-pin HAT Connector x 1<br>PCIe x 4 Slot                                                                                                                                                                                                                                                                                                                                                                    |
| RTC                   | RTC battery, CR2032 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power                 | 12V                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dimension             | 120.35 x 122.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Memory                | DDR4 SO-DIMM Slot x 2 (up to 64GB 3200Mhz)                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Storage               | SATA3 (6Gb/s) x 1:<br>a. SATA Connector x 1<br>b. M.2 2280 M Key NVMe(PCIe [x2])                                                                                                                                                                                                                                                                                                                                                                                               |
| Display Interface     | HDMI 2.0 x 1<br>DP 1.4 x 1 + eDP x 1, 4K at 60hz internal panel                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ethernet              | Intel® i225IT x 1, Intel® i219 (vPRO) x 1                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| OS Support            | Win 10/IOT<br>Linux Ubuntu 20.04.02<br>Linux Yocto 3.1                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Operating Temperature | 32°F ~ 140°F (0°C ~ 60°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operation Humidity    | 0% ~ 90% relative humidity, non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Certification         | CE/FCC class A, RoHS Compliant, REACH                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

| Part Number           | CPU                   | Core | LAN                                                           | Memory                        | USB                                        | RS-232/422/485 | Expansion Slot                                                                                      | Display                          | Power | Operation Temp           |
|-----------------------|-----------------------|------|---------------------------------------------------------------|-------------------------------|--------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------|----------------------------------|-------|--------------------------|
| UPX-TGLI7-A10-0000    | Intel Core i7-1185GRE | 4    | GbE x 2 (Intel i225 IT up to 2.5Gbps, Intel i219 up to 1Gbps) | SO-DIMM (Up to 3200MHz, 64GB) | USB 3.2 Gen 2 x 3, USB 2.0 x 1, USB4.0 x 1 | 2              | M.2 2280 M key x 1, M.2 2230 E key x 1, M.2 3052 B key x 1, 40pin HAT x 1, SATA 3 x 1, PCIe 4.0 x 1 | HDMI, DP, eDP, DP via USB type C | 12V   | 32°F ~140°F (0°C ~ 60°C) |
| UPX-TGLI5-A10-0000    | Intel Core i5-1145GRE | 4    | GbE x 2 (Intel i225 IT up to 2.5Gbps, Intel i219 up to 1Gbps) | SO-DIMM (Up to 3200MHz, 64GB) | USB 3.2 Gen 2 x 3, USB 2.0 x 1, USB4.0 x 1 | 2              | M.2 2280 M key x 1, M.2 2230 E key x 1, M.2 3052 B key x 1, 40pin HAT x 1, SATA 3 x 1, PCIe 4.0 x 1 | HDMI, DP, eDP, DP via USB type C | 12V   | 32°F ~140°F (0°C ~ 60°C) |
| UPX-TGLI3-A10-0000    | Intel Core i3-1115GRE | 2    | GbE x 2 (Intel i225 IT up to 2.5Gbps, Intel i219 up to 1Gbps) | SO-DIMM (Up to 3200MHz, 64GB) | USB 3.2 Gen 2 x 3, USB 2.0 x 1, USB4.0 x 1 | 2              | M.2 2280 M key x 1, M.2 2230 E key x 1, M.2 3052 B key x 1, 40pin HAT x 1, SATA 3 x 1, PCIe 4.0 x 1 | HDMI, DP, eDP, DP via USB type C | 12V   | 32°F ~140°F (0°C ~ 60°C) |
| UPX-TGLCR-A10-0000    | Intel Celeron® 6305E  | 2    | GbE x 2 (Intel i225 IT up to 2.5Gbps, Intel i219 up to 1Gbps) | SO-DIMM (Up to 3200MHz, 64GB) | USB 3.2 Gen 2 x 3, USB 2.0 x 1, USB4.0 x 1 | 2              | M.2 2280 M key x 1, M.2 2230 E key x 1, M.2 3052 B key x 1, 40pin HAT x 1, SATA 3 x 1, PCIe 4.0 x 1 | HDMI, DP, eDP, DP via USB type C | 12V   | 32°F ~140°F (0°C ~ 60°C) |
| UPX-TGLI7G7E-A10-0000 | Intel Core i7-1185G7E | 4    | GbE x 2 (Intel i225 IT up to 2.5Gbps, Intel i219 up to 1Gbps) | SO-DIMM (Up to 3200MHz, 64GB) | USB 3.2 Gen 2 x 3, USB 2.0 x 1, USB4.0 x 1 | 2              | M.2 2280 M key x 1, M.2 2230 E key x 1, M.2 3052 B key x 1, 40pin HAT x 1, SATA 3 x 1, PCIe 4.0 x 1 | HDMI, DP, eDP, DP via USB type C | 12V   | 32°F ~140°F (0°C ~ 60°C) |
| UPX-TGLI5G7E-A10-0000 | Intel Core i5-1145G7E | 4    | GbE x 2 (Intel i225 IT up to 2.5Gbps, Intel i219 up to 1Gbps) | SO-DIMM (Up to 3200MHz, 64GB) | USB 3.2 Gen 2 x 3, USB 2.0 x 1, USB4.0 x 1 | 2              | M.2 2280 M key x 1, M.2 2230 E key x 1, M.2 3052 B key x 1, 40pin HAT x 1, SATA 3 x 1, PCIe 4.0 x 1 | HDMI, DP, eDP, DP via USB type C | 12V   | 32°F ~140°F (0°C ~ 60°C) |

## Packing List

- UP Xtreme i11 with heatsink + cooler

## 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)                                    |
| 1255300960  | (TF)Power Adapter.100~240VAC~50/60Hz.12V/8A.96W.DC jack W/lock.FSP.FSP096-AHAN3/9NA0961403 *Use this adapter if select AI Core XM |
| 1702031802  | (TF)POWER CORD.3P-125V 10A 180D.1.8M.USA.FANJET.YP12/YC-12 (for USA)                                                              |
| 1702031803  | (TF)POWER CORD.3P-250V 10A 180D.1.8M.VDE.FAN-JET.YP-22/YC-12 (for EU)                                                             |
| 170203180E  | (TF)Power cord.3P.125V/7A.1.8M.PSE YP12/YC12 Certificat (for Japan)                                                               |
| 9741364A00  | Wireless LAN Kit M.2 2230 802.11ac/a/b/g/n + BT4.0,2T2R,with 2 sets of cable & antenna (Enli.QCNFA364A)                           |
| 9651926001  | (TF).M.2 2230 WiFi Kit.802.11ac.2.4G/5G.W/BT Intel.9260.NG.WG.NV.958867 w/2 cable & antenna                                       |
| 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                                                                     |