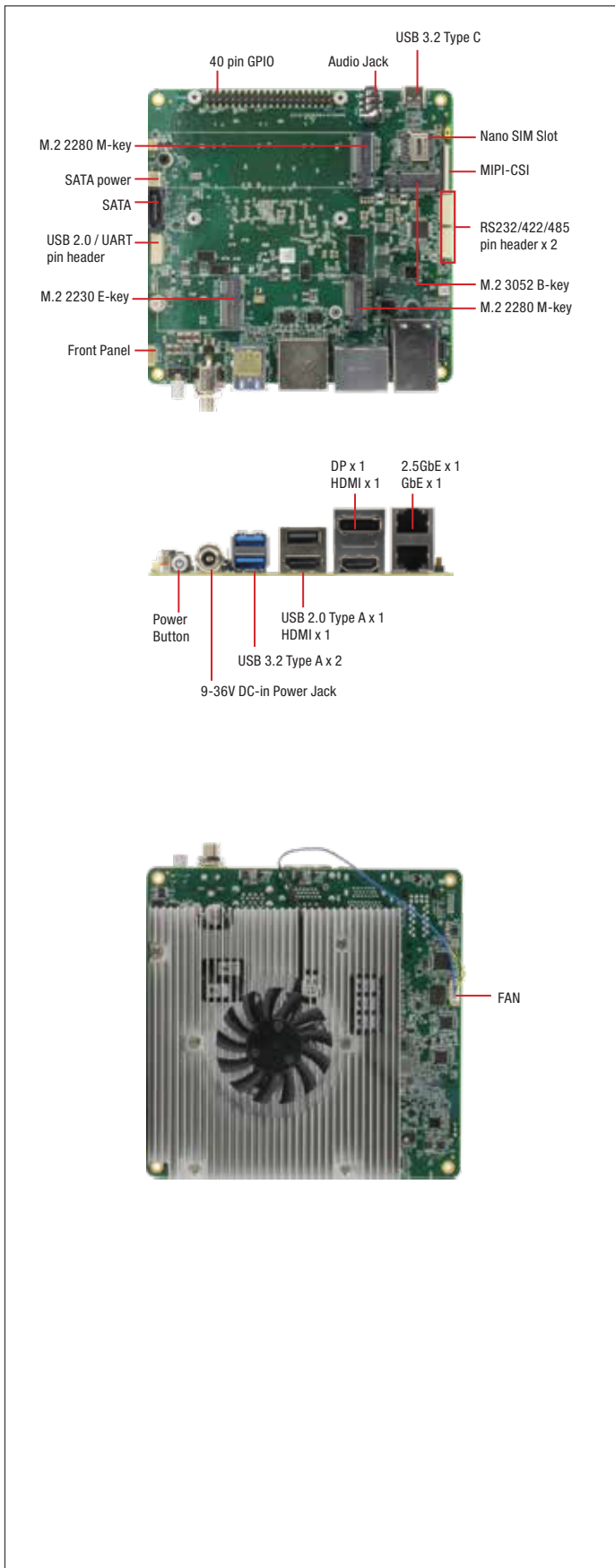


# UP Xtreme i14

UP Xtreme i14 Developer Board with Intel® Core™ Ultra 5/7 Processors



## Features

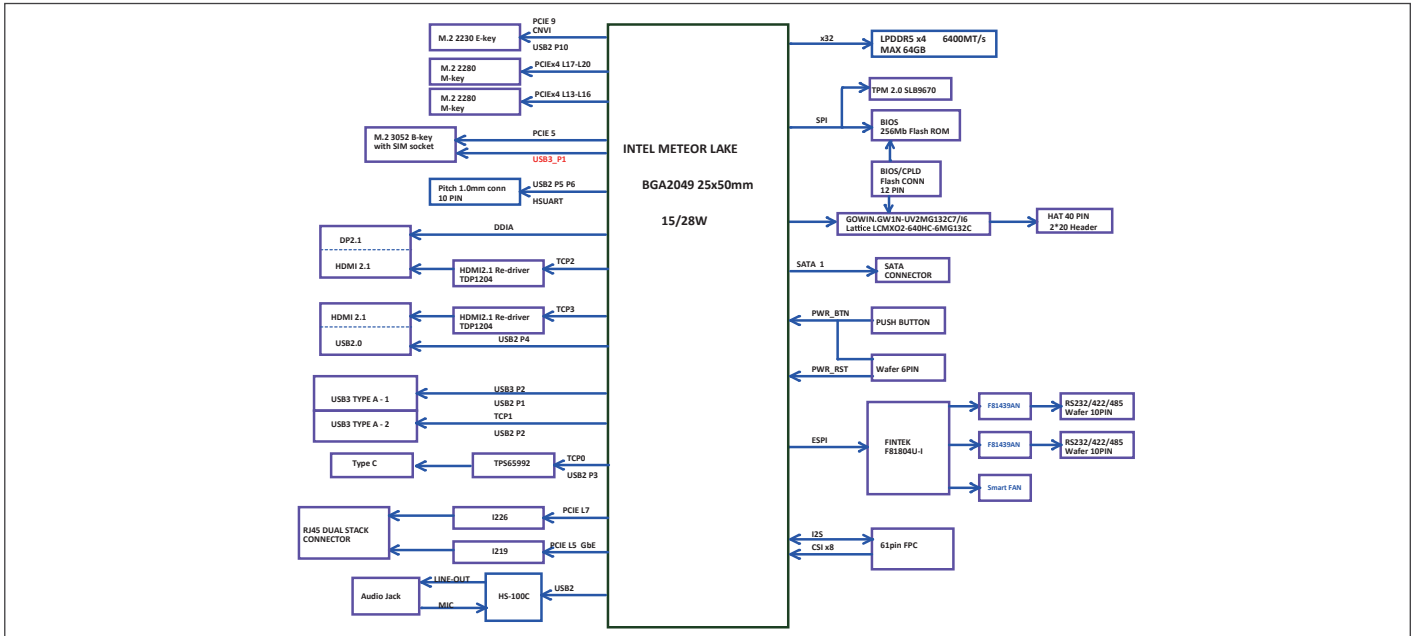
- Intel® Core™ Ultra 5/7 Processors
- Onboard Dual Channel LPDDR5 6400, up to 64GB
- Up to 4 Simultaneous Displays
- M.2 2280 M-Key x 2
- M.2 3052 B-Key x 1 (5G)
- M.2 2230 E-Key x 1 (Wi-Fi/BT)
- 2.5GbE x 1, GbE x 1
- USB 3.2 Gen 2 (Type A x 2, Type C x 1)
- Onboard TPM 2.0
- Wide DC Input 9-36V



## Specifications

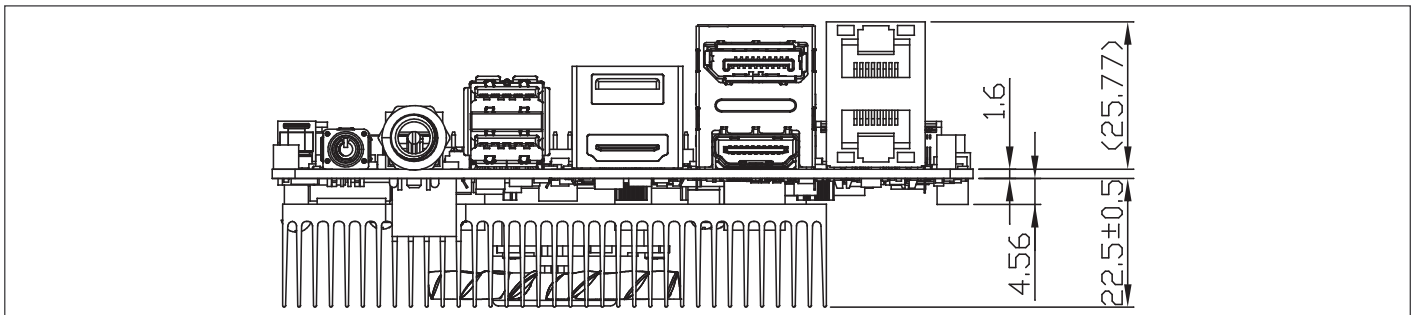
System	
Processor	Intel® Core™ Ultra 5 processor 125U (12M Cache, up to 4.30 GHz) Intel® Core™ Ultra 5 processor 125H (18M Cache, up to 4.50 GHz) Intel® Core™ Ultra 7 processor 155H (24M Cache, up to 4.80 GHz) Intel® Core™ Ultra 7 processor 165H (24M Cache, up to 5.00 GHz)
Graphics	Intel® Arc™ graphics
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	Windows 10/11 (64bit) Ubuntu 22.04/Kernel 6.5 up
Power Requirement	
Power	9-36V DC-in (Lockable plug)
Power Supply Type	AT/ATX (ATX as default)
Power Consumption (Typical)	67-80W
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	With Cooler: 32°F ~ 140°F (0°C ~ 60°C), 0.5m/s airflow
Operation Humidity	0% ~ 90% relative humidity, non-condensing
MTBF	1,014,016
Certification	CE/FCC Class A, RoHS Compliant, REACH

## Block Diagram



## Dimension

Unit: mm



## Packing List

- UP Xtreme i14 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
EP-CBPC125V3PUS	US Power Cord Plug 10A 125V Connector SP-305B+IS-14 SVT 18/3 60 0.75mm 1800±30mm cable length Black UL
EP-CBPC250V3PEU	EU Power Cord Plug 16A 250V Connector 10A 250V VDE H05VV-F 3G 0.75mm 1800±30mm cable length
EP-CBPC250V3PUK	UK Power Cord Plug 13A 250V 3X 0.75mm <sup>2</sup> 1800±30mm cable length
RE-WFKIT-9260NVP	Intel 9260 Wifi Kit ,Intel® Wireless-AC 9260, 802.11AC, 2x2 AC+BT, M.2 2230 No vPro with 2X External Antennas & 2 X RF Cables and integrated Antennas 2.4GHz/5GHz
RE-UP4GEM05-GFA	M.2 3042 B key Cat4 4G LTE kit w/RF cable & antenna,Global band Quectel EM05-G
RE-UPSATAPACK01	SATA Power Cable.15P and SATA Data Cable, 7P female to female 500mm

## Ordering Information

Part Number	CPU	Core	Memory	Thermal Solution
UPX-MTL125H-A10-1600	Intel® Core™ Ultra 5 processor 125H (18M Cache, up to 4.50 GHz)	4P+8E+2LPE	16G	Active Cooler
UPX-MTL125U-A10-3200	Intel® Core™ Ultra 5 processor 125U (12M Cache, up to 4.30 GHz)	2P+8E+2LPE	32G	Active Cooler
UPX-MTL125H-A10-3200	Intel® Core™ Ultra 5 processor 125H (18M Cache, up to 4.50 GHz)	4P+8E+2LPE	32G	Active Cooler
UPX-MTL155H-A10-3200	Intel® Core™ Ultra 7 processor 155H (24M Cache, up to 4.80 GHz)	6P+8E+2LPE	32G	Active Cooler
UPX-MTL165H-A10-6400	Intel® Core™ Ultra 7 processor 165H (24M Cache, up to 5.00 GHz)	6P+8E+2LPE	64G	Active Cooler