

Features

- Intel® Core Ultra Series 3 Processors
- DDR5 6400 MHz, Dual-Channel SODIMM x 2, up to 128GB
- Up to 4 Simultaneous Displays
- M.2 2280 M-Key x 2
- M.2 2230 E-Key x 1 (Wi-Fi/BT)
- 2.5GbE x 2
- USB 3.2 Gen 2 (Type-A) x 2, USB 4.0 (Type-C) x 2
- Wide DC Input 19-36V

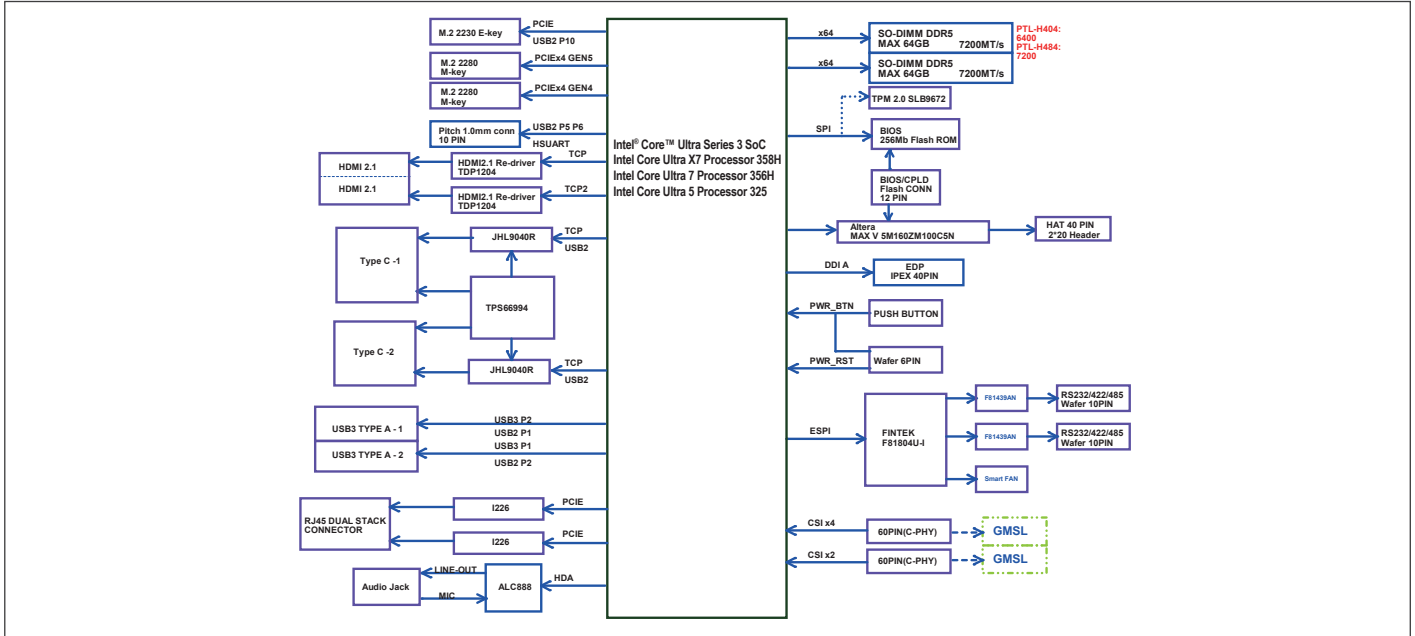


Specifications

System	
Processor	Intel® Core™ Ultra 5 processor 325 (12M Cache, up to 4.50 GHz) Intel® Core™ Ultra 7 processor 356H (18M Cache, up to 4.70 GHz) Intel® Core™ Ultra X7 processor 358H (18M Cache, up to 4.80 GHz)
Graphics	Intel® Core™ Ultra 5 processor 325 - Intel® Graphics Intel® Core™ Ultra 7 processor 356H - Intel® Graphics Intel® Core™ Ultra X7 processor 358H - Intel® Arc™ B390 GPU
Memory	DDR5 6400 MHz, Dual Channel SODIMM x 2, up to 128GB
Storage	M.2 2280 M-Key x 2
I/O	HDMI 2.1 x 2 DP 2.1 x 2 via USB 4.0 Type-C Audio Jack x 1 (Mic-in + Line-out) RS-232/422/485 via 10-Pin header x 2 eDP 1.5 x 1
Camera	MIPI CSI x 2 via 60-pin Connector
USB	USB 2.0 x 2 (from 10 pin header x 1) USB 3.2 Gen 2 (Type-A) x 2 USB 4.0 (Type-C) x 2
Expansion	40-pin GPIO x 1 M.2 2230 E-Key x 1 (PCIe Gen 4 [x1], USB 2.0) M.2 2280 M-Key x 2 (PCIe Gen 4 [x4], PCIe Gen 5 [x4])
Display Interface	HDMI 2.1 x 2 DP 2.1 x 2 via USB Type-C eDP 1.5 x 1
Ethernet	2.5GbE x 2 (via Intel® Ethernet Controller I226-IT)
Security	Onboard TPM 2.0
RTC	Yes
OS Support	Windows 11 IoT Enterprise Ubuntu 24.04 LTS
Power Requirement	
Power	19-36V DC-in (Lockable plug)
Power Supply Type	AT/ATX
Power Consumption (Typical)	TBD
Mechanical	
Dimension	6.69" x 4.92" (170mm x 125mm)
Net Weight	1 lb (0.46Kg)
Gross Weight	1.58 lb (0.72Kg)
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	TBD
Certification	CE/FCC Class A, RoHS Compliant, REACH

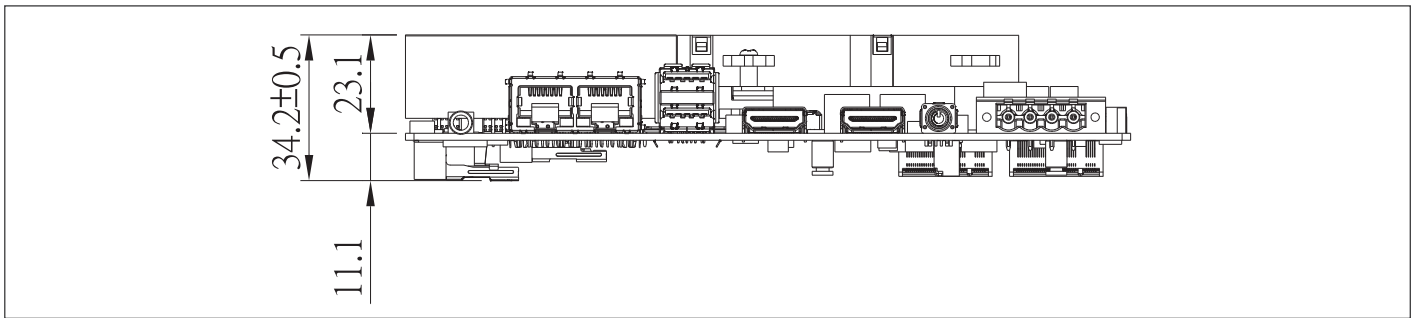


Block Diagram



Dimension

Unit: mm



Packing List

- UP Xtreme PTL with active cooler

Ordering Information

Part Number	CPU	Core	Thermal Solution
UPX-PTL01-A10-325-0000	Intel® Core™ Ultra 5 processor 325 (12M Cache, up to 4.50 GHz)	4P+0E+4LPE	Active Cooler
UPX-PTL01-A10-356H-0000	Intel® Core™ Ultra 7 processor 356H (18M Cache, up to 4.70 GHz)	4P+8E+4LPE	Active Cooler
UPX-PTL01-A10-358H-0000	Intel® Core™ Ultra X7 processor 358H (18M Cache, up to 4.80 GHz)	4P+8E+4LPE	Active Cooler

Optional Accessories

Part Number	Description
1255X00112	(TF)AC/DC Adapter.20V.180W.9A.4P phoenix 5.08mm.FSP.FSP180-ACAS3/9NA1805801
170203180J	(TF)POWER CORD.3P-250V 13A.UK type.1830mm
170X000799	(TF)Power Cord.3P.125V.10A.180D.USA.1.8M.I-SHENG.SP305B/IS-14N SVT 18/3 60C CT-12 Black
170X001024	(TF)Power Cord.3P.250V.10A.VDE.1.8M.I-SHENG.SP23/IS-14N H05VV-F 3G 0.75 CT-12. Black
170X001231	(TF)Power Cord.3P.250V.10A.180D.1800mm.I SHENG ELECTRIC.SP-506A+IS-14N
170X000806	(TF)Power Cord.3P.125V.7A.1.8M.I-SHENG.U4NCB3T6B1218002.SP305B/IS-14N VCTF. Black. BSMI
170X000803	(TF)Power Cord.3P.125V/7A.PSE Certificate.1.8M.I-SHENG.U4NCB3P6C1218002.SP305B/IS-14N VCTF 0.75/3 Black 1.8M
170X000810	(TF)Power Cord.3P.250V.16A.Korea.1.8M.I-SHENG.SP23/IS-14N H05VV-F 3G 0.75 CT-12 Black
170X000805	(TF)Power Cord.3P.250V.10A.SWISS.1.8M.I-SHENG.SP-027C/IS-14N H05VV-F 3G 0.75mm CT-12 Black
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)
170X000255	(TF)COM Port.D-SUB 9P.10P.1.0mm Housing.210mm.FLYINGWAY.FWAA-1375.for UPX-TGL01
170010015G	(TF)USB Cable.10P 1.0mm Housing.USB A(F). 15cm