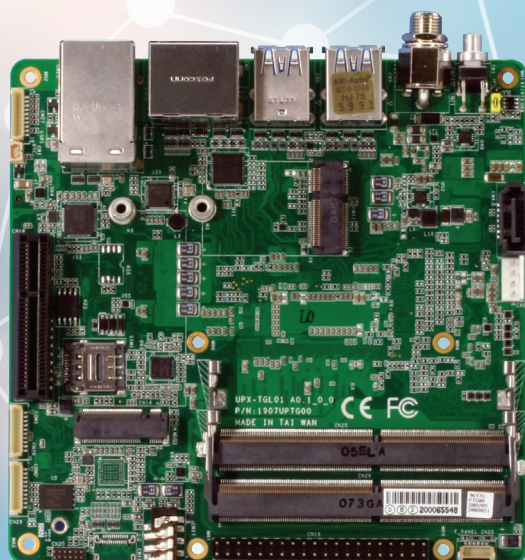




UP Xtreme i11

Introducing the next generation in edge computing with 5G readiness to deliver seamless connectivity, powered by the latest Intel® 11th Gen Core™ processors with Iris® Xe graphics..

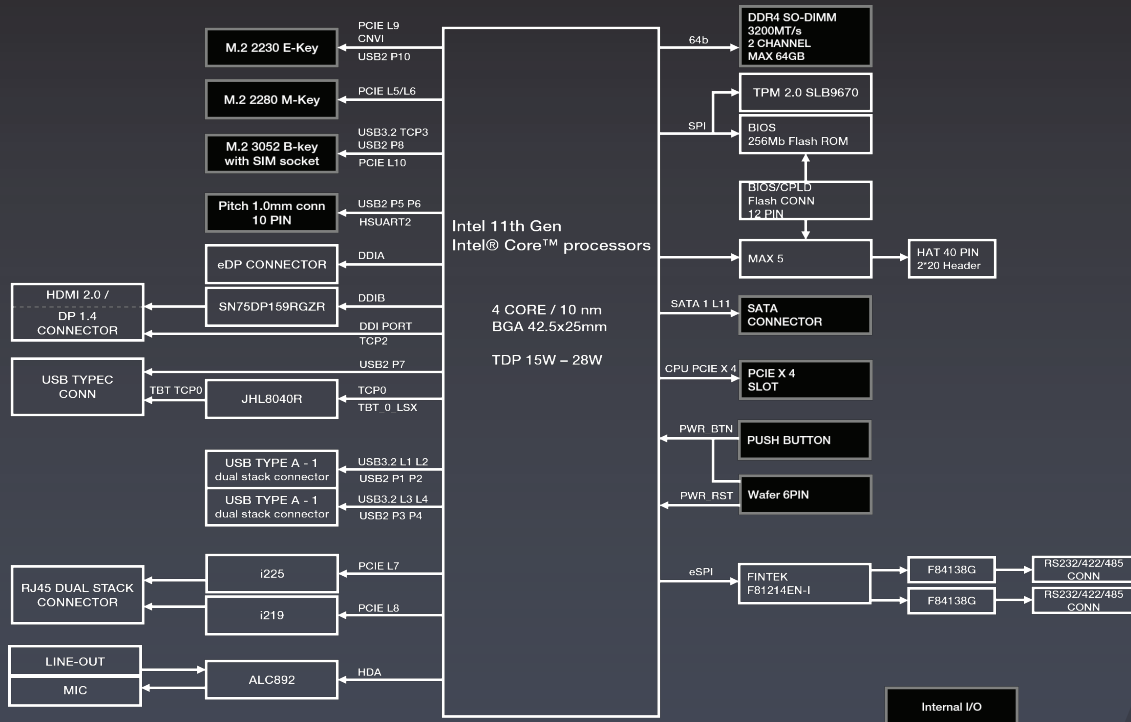
Exceptional graphics and I/O features boost speed, reliability, and efficiency. The Iris® Xe graphics provide up to 96EUs, while the Intel Ethernet runs 2.6 Gb/s.



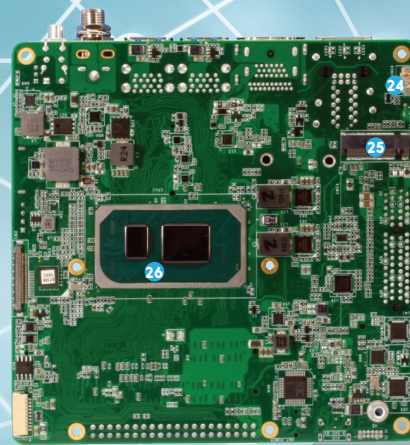
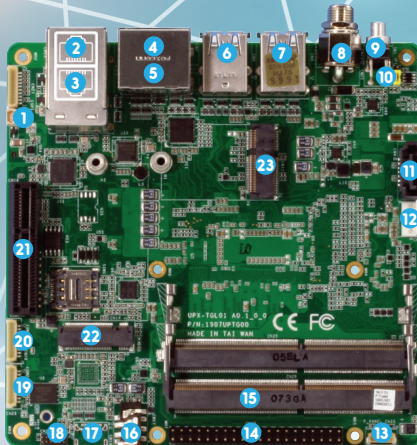
TECH SPECIFICATIONS

System	UP Xtreme i11	Operating temp	32°F ~ 140°F (0°C ~ 60°C)
SoC	Intel® Core™ i7-1185GRE (up to 4.4 GHz) Intel® Core™ i5-1145GRE (up to 4.1 GHz) Intel® Core™ i3-1115GRE (up to 3.9 GHz) Intel® Celeron 6305E (up to 2.0 GHz)	Storage temp	-40°F ~ 176°F (-40°C ~ 80°C)
# of Cores	i3-1115GRE/ Celeron 6305E-Duo Core i7-1185GRE/i5-1145GRE-Quad Core	Operating humidity	0% ~ 90% relative humidity, non-condensing
Graphics	Intel® Iris® Xe Graphics - i7-1185GRE/i5-1145GRE Intel® UHD Graphics for 11th Gen Intel® Processors-i3-1115GRE/ Celeron 6305E	Certification	CE, FCC Class A, RoHS compliant
VPU	Optional (via M.2 2280)	Display	1 (HDMI 2.0b) 1x DP + 1x DP 1.4 (via USB Type C) 1 x eDP (4K@60hz)
FPGA	Intel® FPGA Altera MAX V for 40-pin GP bus	Audio	HDMI Audio X 1, DP Audio X 1, Soundwire Codec for Audio Out/Mic In/, I2S
System memory	2x DDR4 2 channel SO-DIMM VERTICAL MAX 64GB @ 3200MT/s	I/O	USB: 3x USB 3.2 Gen 2 (Type A), 1x USB 2.0, 1x USB 4.0 (Type C) UART: 1 x HSUART (pin header) Serial Port: Fintek F81801, 2x RS232/422/485 HDD interface: 1 x SATA 3.0 40-pin GP-bus: 1 AIO/DIO: via GP-bus SIM Slot x1 Others: Infineon TPM SLB9670 on board
Storage capacity	via 1x SATA 3.0 CONN with POWER CONN / 1xM.2 2280 M key (combo 2x PCIe[x1]) NVME	Expansion Slot	1x M.2 2280 M key (support NVME SSD) 1x M.2 2230 E key 1x M.2 3052 B key 1x PCI-e[x4] (adapter board accessory required)
BIOS	UEFI	Connectivity	Ethernet via 1 x 1GbLAN (i219), 1x 2.5Gb LAN (i225), *vPRO is only available in i7/i5 CPU WiFi 5/6 optional (via M.2 2230) Bluetooth optional (via M.2 2230) LTE/4G/5G optional (via M.2 3052)
RTC	Yes	Cooling	Active cooler
WAKE ON LAN (WoL)	Yes	Others	4 LEDs YRGB (under ethernet port) 1x power button 1x reset button
WATCHDOG TIMER	Yes	Longivity	2035
PXE	Yes	Country of Origin	Taiwan
Compatible OS	Microsoft Windows 10 Full version, Yocto project 3.0/3.1 Kernel 5.4, Ubuntu 20.04 Kernel 5.8		
Power Requirement	12V DC-IN (lockable connector)		
Power Supply type	AT/ATX		
Power Consumption	32W (typical)		
Dimension (L x W)	120mm x 122mm		
Package dimension	229x181x97mm		

block diagram



- 1) RTC battery connector
- 2) Gbps Ethernet port RJ-45 (Intel® i225)
- 3) Gbps Ethernet port RJ-45 (Intel® i219)
- 4) DisplayPort
- 5) HDMI
- 6) USB Type A Dual Port (1x USB 3.2 Gen 2, 1x USB 2.0)
- 7) USB Type A Dual Port (2x USB 3.2 Gen 2)
- 8) Lockable 12V DC-IN
- 9) AT/ATX Mode
- 10) Power mode jumper
- 11) SATA
- 12) SATA power 5V/12V



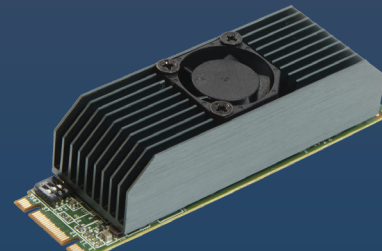
- 13) Power pin-header
- 14) 40-pin HAT connector
- 15) DDR4 SO-DIMM
- 16) Audio jack
- 17) USB 4.0 (type C) + DP 1.4
- 18) BIOS header
- 19) 10-pin RS232/422/485 header
- 20) 10-pin RS232/422/485 header
- 21) PCIE [x4] slot
- 22) M.2 3052 B key
- 23) M.2 2230 E key
- 24) Fan Connector
- 25) M.2 2280 M key (support NVMe SSD)
- 26) CPU

Artificial Intelligence on the edge

Expand your UP Xtreme i11 Board to fit your exact needs



M.2 2230 WiFi kit
Intel® Wireless-AC 9260
(802.11ac, Bluetooth 5.0)



UP AI Core XM 2280
AI hardware accelerator with
2x Intel® Movidius™ Myriad™ X