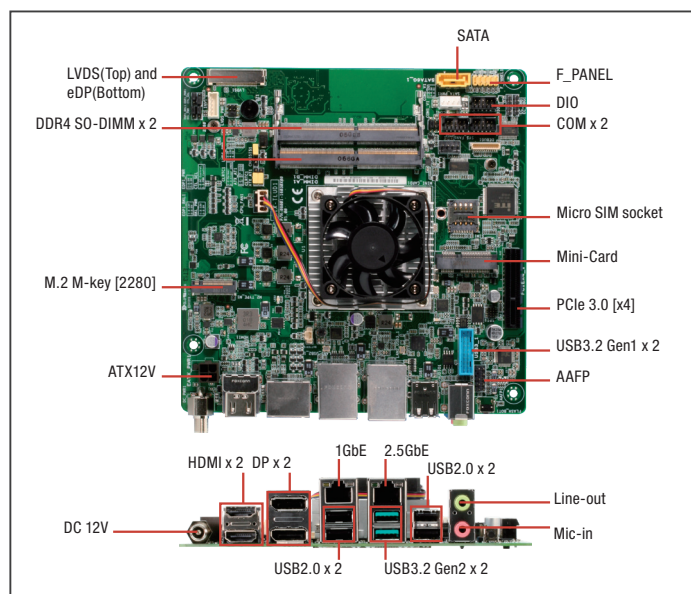


MIX-TLUD1

PRELIMINARY

Mini-ITX with 11th Gen Intel® Core™ U-Processor, Max. 28W TDPs, 4 Display output, 2.5GbE x 1 + 1GbE x 1



Specifications

System	
Processor	Intel® Tiger Lake Processor Max. 28W TDPs
Chipset	—
Memory	DDR4 2666/3200 MHz SODIMM x 2, Up to 64GB, non-ECC/IBEC
I/O Chipset	IT5121E
Ethernet	Intel® PCIe Gb LAN 219V Intel® PCIe Gb LAN 225V x 1
Audio	Realtek® ALC887
TPM	Nuvoton NPCT750 TPM2.0 onboard
Expansion Slots	PCIe 3.0 [x4] x 1, mini-card x 1 (PCIe/SATA; BOM Optional)
BIOS	256Mbit Flash ROM, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis
WatchDog Timer	1~255 steps by software program
Smart Fan Control	CPU Fan/Chassis Fan
Wake On LAN/ PXE	Yes (WOL/PXE)
Power State	S3, S4, S5
Graphics	
Graphics Chipset	Intel® Xe(Gen 12) Graphics
Graphics Multi Display	Four Independent Display
VGA	—
DVI	—
HDMI	HDMI 2.0
Display Port	DP 1.4
LVDS	Up to 1920 x 1200 @60Hz, Dual Channel 18/24 bit (via CH7511B)
eDP	eDP1.4b
Backlight Control	—
Environment & Power & ME	
Battery	Lithium battery
Power Requirement	12(+/-5%) DC
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90%RH, non-condensing
Certificate	CE & FCC Class A
Form Factor	Mini-ITX: 6.7" x 6.7" (170mm x 170mm)
Weight	1.1 lb (0.5 Kg)
MTBF (Hours):	—

Features

- 11th Gen. Intel® Core™ Processor
- DDR4 SODIMM x 2, Max. 64GB
- M.2 Slot (M key; 2280) x 1, mini card x 1
- USB 3.2 Ports x 4, USB 2.0 Ports x 4
- Intel® LAN 225V x 1, 219V x 1
- HDMI2.0 x 2, DP1.4 x 2
- LVDS x 1, eDP x 1
- PCI-Express [x4] x 1
- DC 12V



Rear Panel I/O Ports

USB	USB 3.2 Gen2 x 2, USB2.0 x 4
Display I/O	HDMI x 2, DP++ x 2
Audio I/O	Mic-in x 1, Line out x 1
LAN I/O	1GbE x 1, 2.5GbE x 1
Serial Port	—
PS/2 Port	—
Others	DC Jack x 1 BIOS recovery button x 1

Internal I/O Connectors

Storage	M.2 M key (2280) for (NVMe/PCIe4) storage x 1 SATA 6.0Gb/s x 1
USB	USB 3.0 Box header x 1 (support additional USB3.2 Gen1 x 2ports)
Display I/O	40-pin LVDS connector x 1, 40-pin eDP connector x 1
Audio I/O	AAFP follow ASUS pin out x 1
Serial Port	Boxer header x 2 for COM (COM1: RS-232/422/485 supports 5V/12V/R; COM2: RS-232)
PS/2 Port	—
Parallel Port	—
DIO	Digital I/O box header x 1
FAN	4-pin CPU Fan connector x 1 4-pin Chassis Fan connector x 1
Power	—
Others	Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, Clear CMOS jumper x 1, AT/ATX mode select jumper x 1; SIM socket x 1; BIOS recovery
OS	
OS Support	Windows® 10 64-bit, 21.04.0/Kernel 5.8

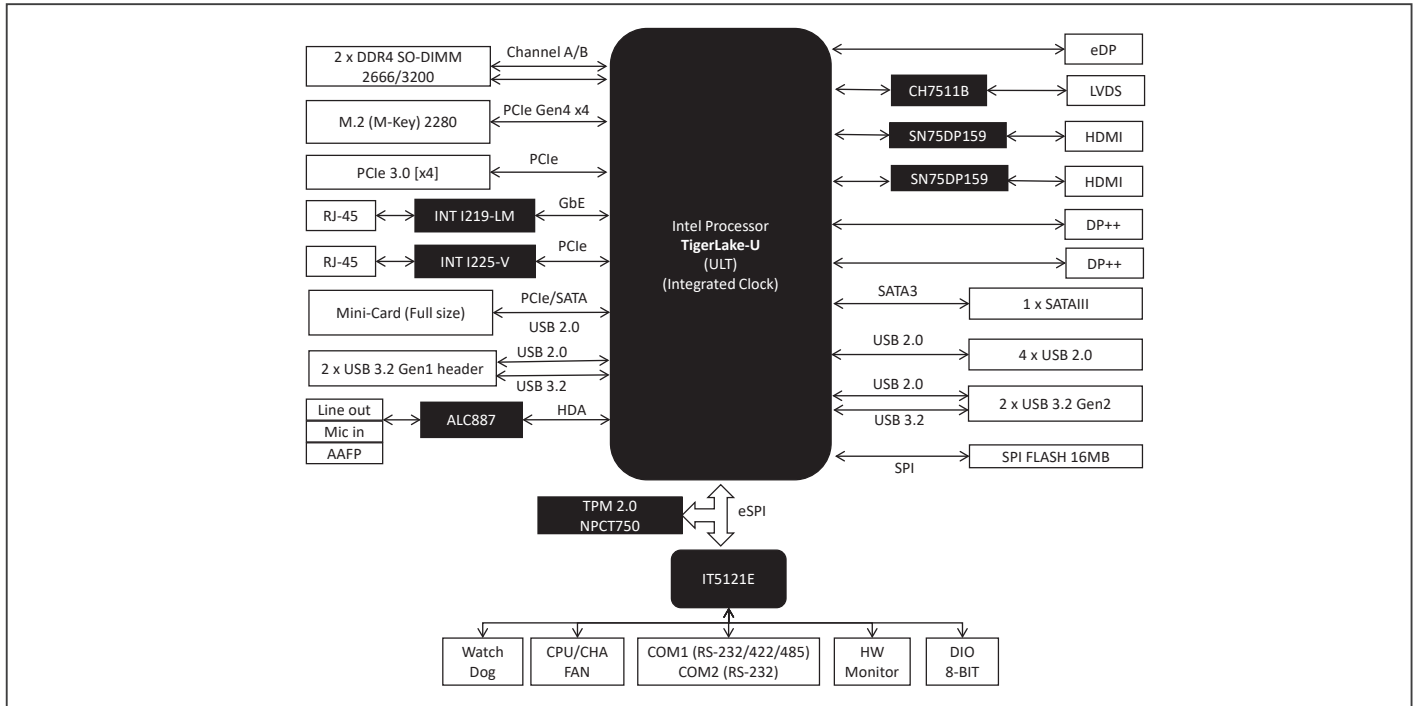
Packing List

- SATA Cable
- I/O Shield
- MIX-TLUD1

Optional Accessories

- TBD

Block Diagram



Dimension

Unit: mm

TBD

Ordering Information

- TBD