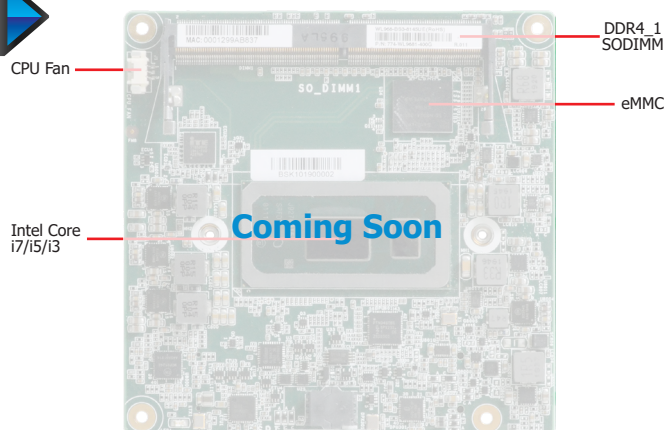


TGU968MD

ULT



Front View



Bottom View

Mechanical Drawing

Coming Soon

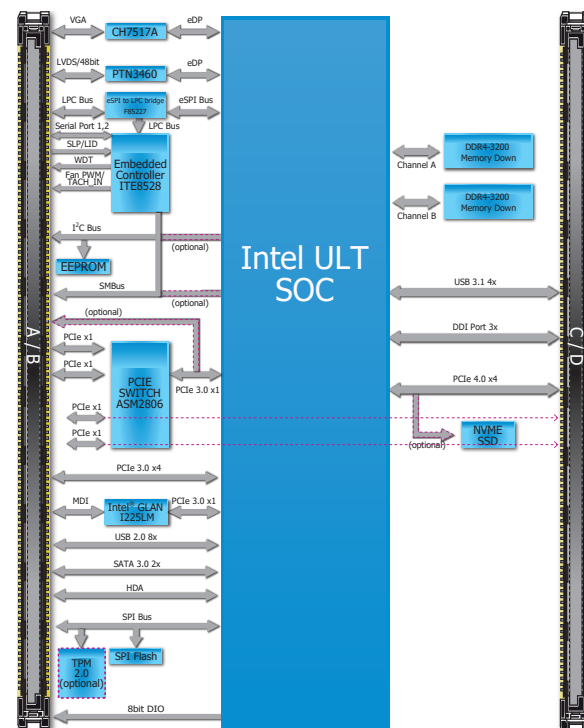
Features

- Dual Channel DDR4 3200MHz SODIMM up to 32GB
- Three independent displays: VGA*/DDI + LVDS*/eDP + DDI
- DP++ supports 4K x 2K resolution
- Multiple expansion: 8 PCIe x1, 1 I2C, 1 SMBus
- Rich I/O: 1 Intel 2.5GbE, 4 USB 3.1, 8 USB 2.0

* Populated by default



Block Diagram



Specifications

SYSTEM	Processor	Intel® Core™ i7-1185G7E Processor (Core 4; Max speed 2.8 GHz; TDP 15-28W) Intel® Core™ i7-1185GRE Processor (Core 4; Max speed 2.8 GHz; TDP 15-28W) Intel® Core™ i5-1145G7E Processor (Core 4; Max speed 2.6 GHz; TDP 15-28W) Intel® Core™ i5-1145GRE Processor (Core 4; Max speed 2.6 GHz; TDP 15-28W) Intel® Core™ i3-1115G4E Processor (Core 2; Max speed 3.0 GHz; TDP 15-28W) Intel® Core™ i3-1115GRE Processor (Core 2; Max speed 3.0 GHz; TDP 15-28W) Intel® Celeron® 6305RE Processor (Core 2; Max speed 1.8 GHz; TDP 15W)	
	Memory	16GB/32GB DDR4 Memory Down Dual Channel DDR4 3200MHz	
	BIOS	AMI BIOS	
	Controller	Intel® Iris® Xe graphics	
GRAPHICS	Feature	OpenGL 5.0, DirectX 12, OpenCL 2.1 HW Decode: WMV9, AVC/H264, JPEG/MJPEG, HEVC/H265, VP9, AV1 HW Encode: AVC/H264, JPEG, HEVC/H265, VP9	
	Display	1 x VGA/DDI (DDI available upon request) 1 x LVDS/eDP (eDP available upon request) 1 x DDI	VGA: resolution up to 1920x1200 @ 60Hz LVDS: dual channel 24-bit, resolution up to 1920x1200 @ 60Hz eDP: resolution up to 4096x2304 @ 60Hz HDMI: resolution up to 4096x2160 @ 30Hz DP++: resolution up to 4096x2304 @ 60Hz
	Triple Displays	VGA + LVDS + DDI	DDI + eDP + DDI (available upon request)
	Interface	1 x PCIe x4 (Gen 4) 8 x PCIe x1 (Gen 3) 1 x I2C 1 x SMBus 1 x SPI 2 x UART (TX/RX)	
EXPANSION	Interface		
AUDIO	Interface	HD Audio	
ETHERNET	Controller	1 x Intel® I225 series (10/100/1000Mbps/2.5G)	
I/O	USB	4 x USB 3.1 Gen.2 8 x USB 2.0	
	SATA	2 x SATA 3.0 (up to 6Gb/s)	
	NVMe SSD	1 x 64GB/128GB/256GB/512GB/1024GB on board SSD (available upon request)	
	DIO	1 x 8-bit DIO	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
SECURITY	TPM	Available Upon Request	
POWER	Type	8.5~12V, 5VSB, VCC_RTC (ATX mode)	8.5~12V, VCC_RTC (AT mode)
	Consumption	TBD	
OS SUPPORT		Windows: Windows 10 IoT Enterprise 64-bit Linux	
ENVIRONMENT	Temperature	Operating: 0 to 60°C, -40 to 85°C	Storage: -40 to 85°C
	Humidity	Operating: 10 to 90% RH	Storage: 10 to 90% RH
	MTBF	TBD	
MECHANICAL	Dimensions	COM Express® Compact	95mm (3.74") x 95mm (3.74")
	Compliance	PICMG COM Express® R3.0, Type 6	
STANDARDS AND CERTIFICATIONS	Certification	CE, FCC	

Ordering Information

Model Name	P/N	Processor	Memory	VGA/DDI	LVDS/eDP	GbE	USB 3.0	USB 2.0	Power	Thermal	Temp.
TGU968MD-T3-1185GRE	770-TGU96M1-001G	I7-1185GRE	32G on board	VGA	LVDS	1	4	8	ATX/AT	Cooler	-40~85
TGU968MD-T1-1145GRE	770-TGU96M1-101G	I5-1145GRE	16G on board	VGA	LVDS	1	4	8	ATX/AT	Cooler	-40~85

Packing List

- TBD

Optional Items

- Heat spreader
- Bulk Box