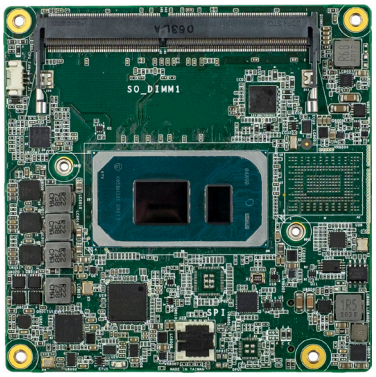
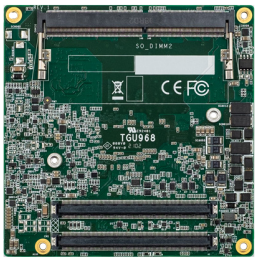
TGU968

ULT



Front View



Bottom View

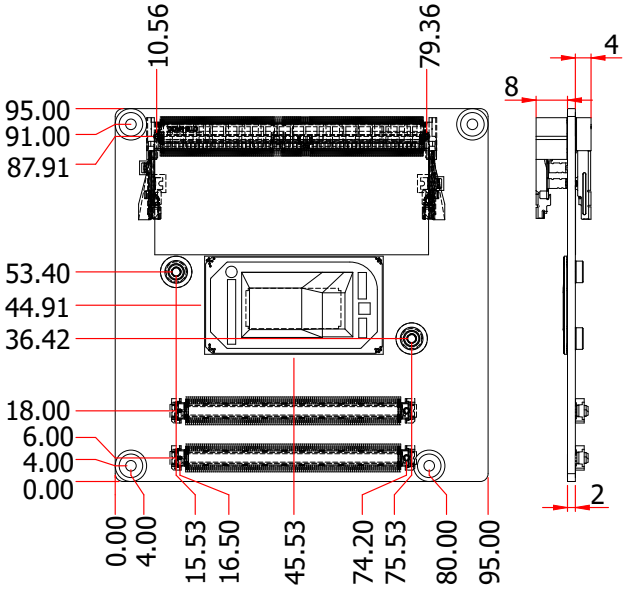
Features

- Dual Channel DDR4 3200Mhz SODIMM up to 64GB
- Three independent displays: VGA* + LVDS*/eDP + DDI
- DP++ supports 4K x 2K resolution
- Multiple expansion: Up to 8 PCIe x1, 1 I2C, 1 SMBus
- Rich I/O: 1 Intel 2.5GbE, 4 USB 3.2, 8 USB 2.0

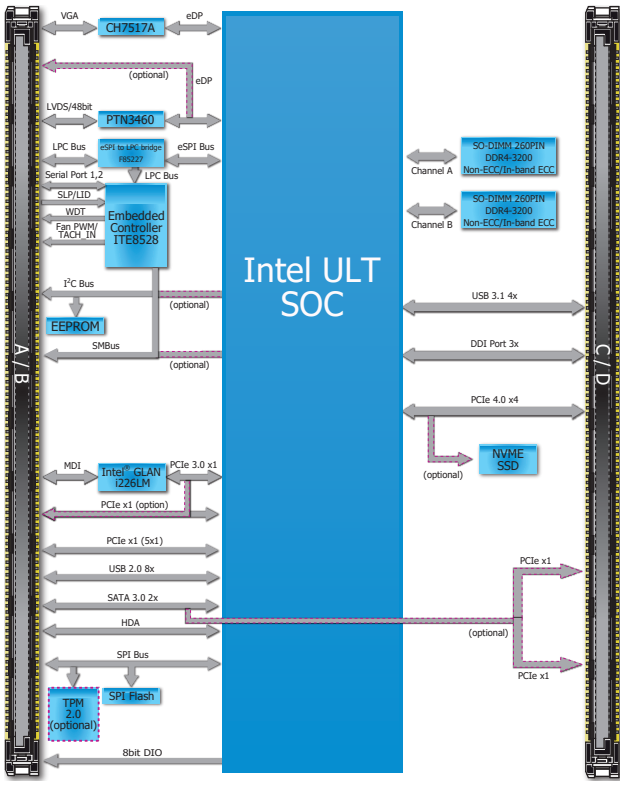
* Populated by default

DDR4 | 4K2K Display | Wide Temperature

Mechanical Drawing



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) Support In-band ECC 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) Support In-band ECC 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 Support In-band ECC Intel® Celeron® 6305E Processor (Core 2; Max speed 1.8 GHz; TDP 15W)	
	Memory	Two 260-Pin SO-DIMM up to 64GB, Dual Channel DDR4 3200Mhz	
	BIOS	AMI BIOS	
GRAPHICS	**Controller**	Intel® UHD Graphics for 11th Gen Intel® Processors	
	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 1 x LVDS/eDP (eDP available upon request) 3 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)
EXPANSION	**Interface**	1 x PCIe x4 (Gen 4) 5 x PCIex1 (Gen3) (8 x PCIex1 available upon request) 1 x I2C 1 x SMBus 1 x SPI 2 x UART (TX/RX)	
AUDIO	**Interface**	HD Audio	
ETHERNET	**Controller**	1 x Intel® i226 series (10/100/1000Mbps/2.5G), co-lay PCIe x1 (available upon request)	
I/O	**USB**	4 x USB 3.2 Gen.2 8 x USB 2.0	
	SATA	2 x SATA 3.0 (up to 6Gb/s), co-lay PCIe x1 (available upon request)	
	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**	8.5~20V, 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, RoHS, UKCA	

Ordering Information

Model Name	P/N	Processor	Memory	LVDS/ eDP	LAN/ PCIe	SATA/ PCIe	USB3.2 Gen2	USB2.0	TPM	Storage	Power	Thermal	Temperature
TGU968-TS6-1185GRE	770-TGU9681-000G	I7-1185GRE	2 SODIMM	LVDS	LAN	SATA	4	8	N/A	64GB NVMe SSD	ATX/AT	Cooler	-40 to 85°C
TGU968-BS0-1145G7E	770-TGU9681-100G	I5-1145G7E	2 SODIMM	LVDS	LAN	SATA	4	8	N/A	N/A	ATX/AT	Heatsink	0 to 60°C
TGU968-TS0-1115GRE	770-TGU9681-200G	I3-1115GRE	2 SODIMM	LVDS	LAN	SATA	4	8	N/A	N/A	ATX/AT	Cooler	-40 to 85°C
TGU968-BS0-6305E	770-TGU9681-300G	Celeron 6305E	2 SODIMM	eDP	LAN	SATA	4	8	N/A	N/A	ATX/AT	Heatsink	0 to 60°C

Remark: The SKU availability is subject to change without notice in advance.

Optional Items

• Heat Spreader	A71-808335-000G
• COM335 Carrier Board Kit	770-CM3351-000G

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