



## Specifications

<b>SYSTEM</b>	<b>Processor</b>	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)
	<b>Memory</b>	Memory Down up to 16GB Dual Channel LPDDR4X 4266MHz
	<b>BIOS</b>	INSYDE SPI 256Mbit
	<b>GRAPHICS</b>	<b>Controller</b> Intel® Iris® Xe graphics
<b>GRAPHICS</b>	<b>Feature</b>	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
	<b>Display</b>	1 x DDI (HDMI/DVI/DP++) 1 x LVDS/eDP LVDS: single channel 24-bit, resolution up to 1366x768 @ 60Hz eDP: resolution up to 3840x2160 @ 60Hz HDMI: resolution up to 3840x2160 @ 30Hz DP++: resolution up to 4096x2160 @ 60Hz
	<b>Dual Displays</b>	DDI + LVDS DDI + eDP
	<b>EXPANSION</b>	<b>Interface</b> 1 x PCIe x4 (Gen 3) 2 x I2C 1 x SMBus 1 x SPI 2 x UART (TX/RX)
<b>AUDIO</b>	<b>Interface</b>	HD Audio
<b>ETHERNET</b>	<b>Controller</b>	1 x Intel® Ethernet PHY I219 (10/100/1000Mbps)
<b>I/O</b>	<b>USB</b>	2 x USB 3.2 Gen.2 8 x USB 2.0
	<b>SATA</b>	2 x SATA 3.0 (up to 6Gb/s)
	<b>NVMe SSD</b>	1 x 64GB/128GB/256GB/512GB/1024GB on board SSD (available upon request)
	<b>DIO</b>	1 x 8-bit DIO
<b>WATCHDOG TIMER</b>	<b>Output &amp; Interval</b>	System Reset, Programmable via Software from 1 to 255 Seconds
<b>SECURITY</b>	<b>TPM</b>	FTPM
<b>POWER</b>	<b>Type</b>	4.75V~20V, 5VSB, VCC_RTC (ATX mode)      4.75V~20V, VCC_RTC (AT mode)
	<b>Consumption</b>	TBD
<b>OS SUPPORT</b>		Windows: Windows 10 IoT Enterprise 64-bit      Linux
<b>ENVIRONMENT</b>	<b>Temperature</b>	Operating: -5 to 65°C, -40 to 85°C      Storage: -40 to 85°C
	<b>Humidity</b>	Operating: 10 to 90% RH      Storage: 10 to 90% RH
	<b>MTBF</b>	TBD
<b>MECHANICAL</b>	<b>Dimensions</b>	COM Express® Mini      84mm (3.3") x 55mm (2.16")
	<b>Compliance</b>	PICMG COM Express® R3.0, Type 10
<b>STANDARDS AND CERTIFICATIONS</b>	<b>Certification</b>	CE, FCC, RoHS

## Ordering Information

Model Name	CPU	Memory	LVDS/eDP	DIO/SDIO	SSD	Operating temp.	Part Number
TGU9A2-TC13-i7	i7	16 GB	LVDS	DIO	64 GB	-40~85°C	TBD
TGU9A2-TC83-i7	i7	8 GB	LVDS	DIO	64 GB	-40~85°C	TBD
TGU9A2-TC83-i5	i5	8 GB	LVDS	DIO	64 GB	-40~85°C	TBD
TGU9A2-BC83-i3	i3	8 GB	eDP	SDIO	64 GB	-5~65°C	TBD
TGU9A2-TC83-Celeron	Celeron	8 GB	LVDS	DIO	64 GB	-40~85°C	TBD
TGU9A2-BC83-Celeron	Celeron	8 GB	eDP	SDIO	64 GB	-5~65°C	TBD

## Packing List

• TBD
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## Optional Items

• Heat spreader	TBD
• Bulk Box	TBD