



## EPC-TGU

### 11th Gen Intel® Tiger Lake UP3 Fanless Compact System



- > Intel® 11th Tiger Lake-U Processor
- > Intel® Iris® Xe/UHD Graphics
- > Single Memory Socket, Max. Up to 32GB DDR4 3200MT/s
- > Dual Display, DP++ 1.4
- > Dual Intel® Gigabit Ethernet, Dual 2.5GbE
- > Triple Storage, 2.5" Drive Bay, 2-M.2 SSD
- > Triple M.2 Slot, Key-E/B/M for Wi-Fi, LTE, SSD and I/O module
- > Support iAMT, SATA RAID 0/1
- > Default dTPM 2.0, Wall Mount Kit

#### + Spec

##### System Information

<b>Processor</b>	Intel® Core™ Processor i7- 1185G7E (15W) Intel® Core™ Processor i5- 1145G7E (15W) Intel® Core™ Processor i3- 1115G4E (15W) Intel® Celeron® Processor 6305E (15W)
<b>System Memory</b>	1 x 260-pin SODIMM socket Max. up to 32GB DDR4 3200MT/s
<b>I/O Chipset</b>	EC ITE IT8882
<b>BIOS Information</b>	AMI uEFI BIOS 256 Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec.
<b>H/W Status Monitor</b>	System temperature monitoring and Voltages monitoring
<b>RAID</b>	RAID 0/1 (SATA)
<b>TPM</b>	TPM 2.0
<b>iAMT</b>	Above Core i5 (selected SKUs)
<b>SBC</b>	ECM-TGU

##### -Expansion-

<b>M.2</b>	1 x M.2 Key-M 2242 (PCIe Gen4 x 4) 1 x M.2 Key-B 2242/3042 with Internal SIM Slot (SATA, USB 2.0) 1 x M.2 Key-E 2230 (PCIe, USB 2.0)
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##### -Storage-

<b>M.2</b>	1 x M.2 Key-M 2242 NVMe (PCIe Gen4 x 4) 1 x M.2 Key-B 2242/3042 (SATA)
<b>2.5" Drive Bay</b>	1 x Internal 2.5" Drive Bay (7mm)

##### -Front I/O-

<b>COM Port</b>	2 x RS232/422/485 (BIOS)
<b>Power Button</b>	1 x Power Button

##### -Rear I/O-

<b>USB Port</b>	4 x USB 3.2 Gen.2 (10Gbp/s) 2 x USB 2.0
<b>DP</b>	2 x DP++
<b>Audio</b>	1 x Combo Jack (Mic-In, Line-Out)
<b>RJ-45</b>	2 x RJ45 (Max. Up to 3-RJ45 in project base)
<b>LED Indicator</b>	1 x Power On/Off 1 x Storage Access
<b>Antenna</b>	2 x Antenna Mounting with Dust Protection Cover

##### -Display-

<b>Graphic Chipset</b>	Intel® Iris® Xe Graphics (i7-1185G7E/i5-1145G7E) Intel® Iris® UHD Graphics (i3-1115G4E/6305E)
<b>Resolution</b>	DP++ 1.4: 4096x2304@60Hz DP1+DP2 (DP1.4): Max: 7680 x 4320@60 Hz

##### -Audio-

<b>Audio Codec</b>	Realtek ALC888S
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##### -Ethernet-

<b>LAN Chipset</b>	2 x Intel® I226LM
<b>Specification</b>	2 x 10/100/1000/2.5 Gigabit (I226LM)

##### -Power Requirement-

<b>DC Input Voltage</b>	Typical 12/24Vdc
<b>DC Input Connector</b>	Lockable DC Jack
<b>ACPI</b>	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>Adapter</b>	60W AC to DC Adapter (Default)/ 120W AC to DC Adapter (Option) Note1: 60W for general mode (storage, communication, display, USB port, room temp.) Note2: 120W for full load mode (general mode plus max. workload and operating temp.)

##### -Software Support-



<b>OS Information</b>	Win10, Win11, Linux
<b>-Certification-</b>	
<b>Certification Information</b>	CE, FCC Class B, UKCA
<b>Mechanical &amp; Environmental</b>	
<b>Operating Temperature</b>	With extended temperature peripherals: 0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s air flow
<b>Storage Temperature</b>	-30~70C° (-22°F ~ 158°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Dimension (W x L x H)</b>	177mm x 123mm x 55mm (7" x 4.8" x 2.2")
<b>Vibration Test</b>	With SSD : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
<b>Shock Test</b>	With SSD : 55Grms, IEC 60068-2-27, Half Sine, 11ms
<b>Drop Test</b>	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
<b>Mounting Kit</b>	Stand Wall Mount kit
<b>Construction</b>	Aluminum + Metal
<b>Ordering Information</b>	
<b>Ordering Information</b>	<p>EPC-TGU-85-B1-1R 11th Gen Intel®Core™ Processor i7-1185G7E Fanless Compact System</p> <p>EPC-TGU-45-B1-1R 11th Gen Intel®Core™ Processor i5-1145G7E Fanless Compact System</p> <p>EPC-TGU-15-B1-1R 11th Gen Intel®Core™ Processor i3-1115G4E Fanless Compact System</p> <p>EPC-TGU-05-B1-1R 11th Gen Intel®Celeron 6305E Fanless Compact System</p> <p>E1702031831R Australia Power Cord</p> <p>E1702031833R USA Power Cord</p> <p>E1702031834R Japan Power Cord</p> <p>E170P060380R UK Power Cord</p> <p>E1702031000R EU Power Cord</p>