



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

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

-Expansion-

M.2	1 x M.2 Key-M 2242 (PCIe Gen4 x4) 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-

M.2	1 x M.2 Key-M 2242 NVMe (PCIe Gen4 x4) 1 x M.2 Key-B 2242/3042 (SATA)
2.5" Drive Bay	1 x Internal 2.5" Drive Bay (7mm)

-Front I/O-

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

-Rear I/O-

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

-Display-

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

-Audio-

Audio Codec	Realtek ALC888S
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-Ethernet-

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

-Power Requirement-

DC Input Voltage	Typical 12/24Vdc
DC Input Connector	Lockable DC Jack
ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	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 pluses max. workload and operating temp.)

-Software Support-



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

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US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660