



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)
-----	---

-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
-------------	-----------------

-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

www.avalue.com.tw

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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