



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, 2.5GbE, 1GbE
- > 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 (CS)	
Processor	Intel® Core™ i7- 1185G7E (15W, 12M Cache, up to 2.80 GHz) Intel® Core™ i5- 1145G7E Processor (15W, 8M Cache, up to 2.60 GHz) Intel® Core™ i3- 1115G4E Processor(15W, 6M Cache, up to 3.00 GHz) Intel® Celeron® 6305E Processor(4M Cache, 1.80 GHz)
System Memory	1 x 260-pin SODIMM socket Max. up to 64GB DDR4 3200 MT/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 (CS)	
M.2	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)
Storage (CS)	
M.2	1 x M.2 Key-M 2242 NVMe (PCIe Gen4 x 4) 1 x M.2 Key-B 2242/3042 (SATA)
2.5" Drive Bay	1 x Internal 2.5" Drive Bay (7mm)
Edge I/O (Front) (CS)	
COM Port	2 x RS232/422/485 (BIOS)
Power Button	1 x Power Button
Edge I/O (Rear) (CS)	
USB Port	4 x USB 3.1 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 (CS)	
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 (CS)	
Audio Codec	Tempo 92HD73C
Ethernet (CS)	
LAN Chipset	1 x Intel® I225-LM 1 x Intel® I210-AT
Specification	10/100/1000/2.5 Gigabit (I225-LM) 10/100/1000 Gigabit (I210-AT)
Power Requirement (CS)	
DC Input	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	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 12V/10A AC-DC 120W Adapter
Software Support (CS)	
OS Information	Win10, Linux
Certification (CS)	
Certification Information	CE, FCC Class B
In-Box Accessory (CS)	
Accessory	2 x Wall mount kit 1 x AC to DC Adapter 1 x Power cord 4 x Rubber Foot 1 x DP to VGA cable 1 x Screw Kit
Mechanical & Environmental	
Operating Temperature	With extended temperature peripherals: 0°C ~ 50°C (14°F ~ 122°F) with 0.5m/s air flow
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°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 : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
Shock Test	With SSD : 55Grms, 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