



Features

- 11th Gen Intel® Core™ i7/i5/i3/Celeron® 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



4K@60Hz
8K@60Hz



High Speed
NVMe 4-PCIe



Rugged
Design
5G/55G



Fanless
0-50°C



Dual-DC Input
+12/24Vdc

Specifications

System Information

Processor	Intel® Core™ i7-1185G7E Processor (15W) Intel® Core™ i5-1145G7E Processor (15W) Intel® Core™ i3-1115G4E Processor (15W) Intel® Celeron® 6305E Processor (15W)
System Memory	1 x 260-pin SODIMM socket Max. up to 32GB DDR4 3200MTs
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 NVMe (PCIe Gen4 x 4) 1 x M.2 Key-B 2242/3042 (SATA3)
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Storage

M.2	1 x M.2 Key-M 2242 NVMe (PCIe Gen4 x 4) 1 x M.2 Key-B 2242/3042 (SATA3)
2.5 Drive Bay	1 x Internal 2.5 Drive Bay (7mm)

Front I/O

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

Rear I/O

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

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

Power Requirement

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	Win10, Linux
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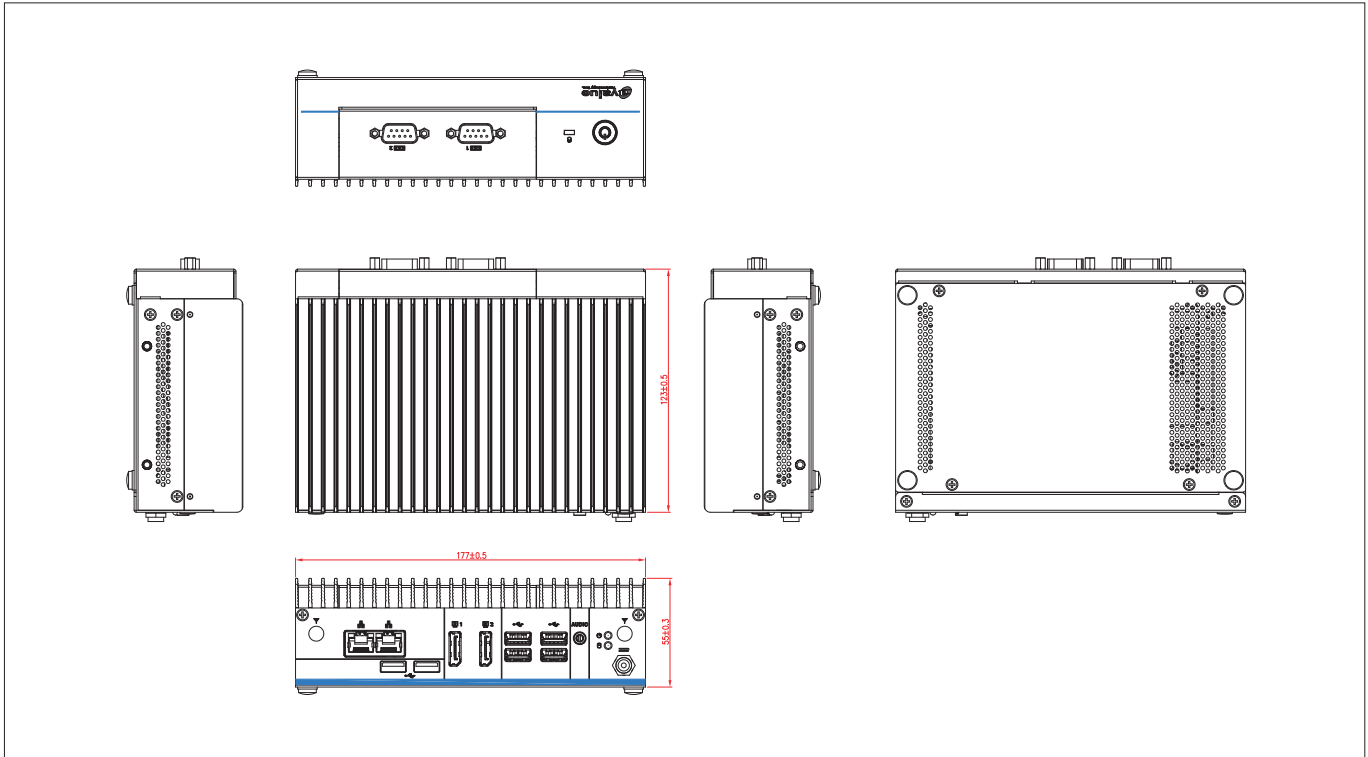
Certification

Certification Information	CE, FCC Class B, UKCA
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Mechanical & Environmental

Operating Temp.	With extended temperature peripherals: 0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s air flow
Storage Temp.	-30~70°C (-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 : 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

Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Adapter	Mounting Kit	I/O Ports (COM/USB/LAN)	Display Output	Power Input	Working Temp.	OS Support
EPC-TGU-85-B1-1R	Intel® Core® Processor i7-1185G7E	8GB DDR4	12V/5A	Stand/Wall mount	2/6/2	DP	+12~24V DC in	0°C ~ 50°C	Win 10, Win 11, Linux
EPC-TGU-45-B1-1R	Intel® Core® Processor i5-1145G7E	8GB DDR4	12V/5A	Stand/Wall mount	2/6/2	DP	+12~24V DC in	0°C ~ 50°C	Win 10, Win 11, Linux
EPC-TGU-15-B1-1R	Intel® Core® Processor i3-1115G4E	8GB DDR4	12V/5A	Stand/Wall mount	2/6/2	DP	+12~24V DC in	0°C ~ 50°C	Win 10, Win 11, Linux

Packing List

Item	Quantity
EPC-TGU System	1
AC/DC Adapter 12V/5A	1
DP to VGA Adapter Cable Type	1
Wall Mount	2
Stand	1
Screw Kit for Peripherals	1

Optional Items

Item	P/N
AC/DC adapter 12V/10A	ACC-ADP-120N-07R
Power Cord 3P (F)-3P (M) 183cm, USA Type	E1702031833R
Power Cord SL-6+SL-3 183cm, EU Type	E1702031000R
Power Cord 3P (F)-3P (M) 183cm, Japan w/PSE Type	E1702031834R
Power Cord QP-026+SL-3 183cm, UK Type	E170P060380R
Power Cord 3P (F)-3P (M) 183cm, Australia Type	E1702031831R
Mounting Kit (VESA/Din Rail Kit)	ACC-EPC-KIT-04R

I/O Overview

