



Features

- 11th Gen Intel® Core™ i5/i3 Tiger Lake-UP3 Processor
- Intel® Iris® Xe/ UHD Graphics Engine
- 1-260-pin DDR4 3200MHz SO-DIMM, Supports Up to 32GB
- 2-Gigabit Ethernet, 1 x 2.5GbE, 1 x 1GbE
- 2-COM Port (RS-232/422/485 & RS-232)
- 2-Audio Jack (Line-Out & Mic-In)
- 2-Storage (M.2 Key-M NVMe & M.2 Key-B SATA)
- 2-Expansion Slot (M.2 Key-E, Key-B)
- 6-USB Port (3-USB 3.2 & 3-USB 2.0)
- CE, FCC Class A, UKCA



2-DP++
4K@60Hz



Compact
Size
180x120x48



Onboard
TPM 2.0



High Speed
M.2 Key-M
NVMe



No Vents
0~50°C

Specifications

System Information

Processor	Intel® Core™ i5-1135G7 Processor (TDP 15W)(Default) Intel® Core™ i3-1115G4 Processor (TDP 15W)(Default) Intel® Core™ i7-1165G7 Processor (TDP 15W)(Project Based) Intel® Core™ i7-1185G7E Processor (TDP 15W)(Project Based) Intel® Core™ i5-1145G7 Processor (TDP 15W)(Project Based) Intel® Celeron 6305E Processor (TDP 15W)(Project Based)
System Memory	Single 260-Pin SO-DIMM Socket, Max. Up to 32GB DDR4 3200MHz
BIOS Information	AMI uEFI BIOS, 256Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec./min.1sec. or 1min. step
H/W Status Monitor	CPU temperature monitoring and voltage monitoring
TPM	TPM 2.0
SBC	ECM-TGUC

Expansion

M.2	1 x M.2 Key-E 2230 (PCIe, USB 2.0) 1 x M.2 Key-M 2280 NVMe (PCIe Gen4 x 4)
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Storage

M.2	1 x M.2 Key-B 2242 (SATA3) 1 x M.2 Key-M 2280 NVMe (PCIe Gen4 x 4)
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Front I/O

Power Button	1 x Power Button w/LED
COM Port	1 x RS-232/422/485 (Default RS-232) 1 x RS-232
Audio	1 x Line-Out 1 x Mic-In

Rear I/O

USB	3 x USB 3.2 Gen.2 3 x USB 2.0
COM Port	1 x RS-232/422/485 (Default RS-232) 1 x RS-232
LED Indicator	1 x Power On/Off 1 x Storage Access
LAN Port	2 x RJ-45
Audio	1 x Line-Out 1 x Mic-In
DP	2 x DP++
Antenna	2 x Antenna Mounting with Dust Protection Cover
AC/DC Input	Lockable DC Jack

Right I/O

Antenna	2 x Antenna Mounting with Dust Protection Cover
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Left I/O

Antenna	2 x Antenna Mounting with Dust Protection Cover
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Display

Graphic Chipset	Intel® Iris® Xe Graphics (i7-1165G7/ i5-1135G7) Intel® UHD Graphics for 11th Gen Intel® Processors (i3-1115G4)
Resolution	DP++ 1.4: 4096x2304@60Hz

Audio

Audio Codec	RealTek ALC888S-VD2-GR
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Ethernet

LAN Chipset	Intel® Ethernet Connection I219-LM (1G) Intel® Ethernet Controller I225-V (2.5G)
Specification	10/100/1000 Gigabit (I219-LM) 10/100/1000/2500 Gigabit (I225-V)

Power Requirement

ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	AC to DC Adapter 60W

Software Support

OS	Win11 64bits, Win10, Linux
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Certification

Certification Information	CE, FCC Class A, UKCA
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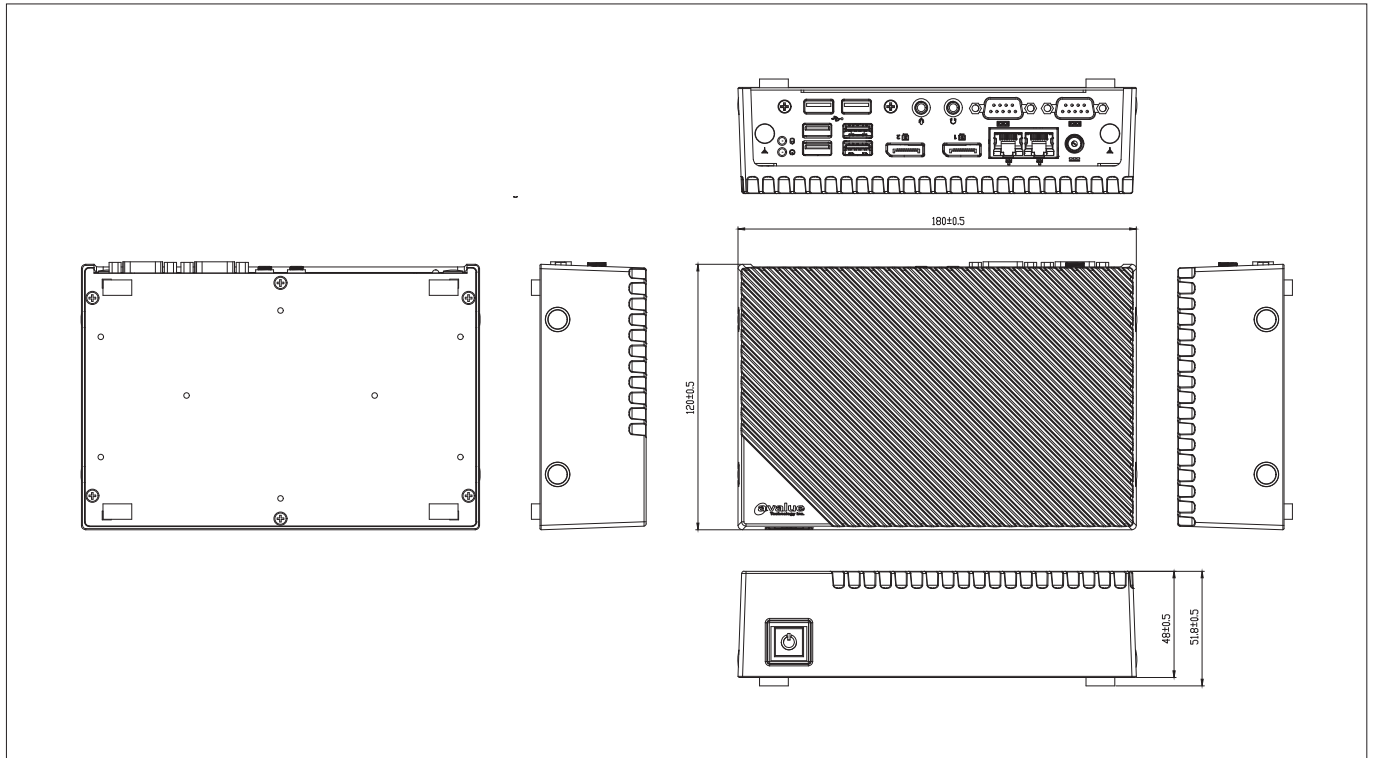
In-Box Accessory

Accessory	1 x AC to DC Adapter, 1 x Wall Mount, 4 x Rubber Feets, 1 x Screw Kit
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Mechanical & Environmental

Operating Temp.	With wide-temp storage: 0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s air flow With general storage: 0°C ~ 40°C (32°F ~ 122°F) with 0.5m/s air flow
Storage Temp.	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	188mm x 120mm x 48mm
Weight	835g
Vibration Test	with SSD: 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
Shock Test	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	Wall Mount Kit

Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Adapter	Mounting Kit	I/O Ports (COM/USB/LAN)	Audio Port	Power Input	Working Temp.	OS Support
ACS10-TGU-A1-1R	i3-1115G4	N/A	12V/5A Adapter	wall mount	2/6/2	Mic-in + Line-out	+12V DC in	0°C ~ 50°C	Windows 10/11, Linux
ACS10-TGU-A1-2R	i5-1135G7	N/A	12V/5A Adapter	wall mount	2/6/2	Mic-in + Line-out	+12V DC in	0°C ~ 50°C	Windows 10/11, Linux

Packing List

Item	Quantity
ACS10-TGU system	1
AC to DC adapter (12V/60W)	1
Wall Mount	1
Component Kits (Screws for M.2 & Wall Mount, 4x Rubber Feet)	1

Optional Items

Memory	Item	Description
ACC-MEM-4G-59R	4GB DDR4	4GB DDR4 3200MHz
ACC-MEM-8G-32R	8GB DDR4	8GB DDR4 3200MHz
ACC-MEM-16G-25R	16GB DDR4	16GB DDR4 3200MHz
Storage	Item	Description
ACC-M2-42-128G-12R	128GB M.2 Key-B	M.2 2242 128GB 3D TLC -40~85°C
ACC-M2-42-256G-05R	256GB M.2 Key-B	M.2 2242 256GB 3D TLC -40~85°C
ACC-M2-42-512G-06R	512GB M.2 Key-B	M.2 2242 512GB 3D TLC -40~85°C
ACC-M2-80-128G-08R	128GB M.2 Key-M	M.2 2280 128GB 3D TLC, -40~85°C
ACC-M2-80-256G-09R	256GB M.2 Key-M	M.2 2280 256GB 3D TLC, -40~85°C
ACC-M2-80-512G-04R	512GB M.2 Key-M	M.2 2280 512GB 3D TLC, -40~85°C

I/O Overview

