



ACS10-TGU

11th Gen Intel® Tiger Lake Fanless Compact System

11th Gen Intel® Core™ i5/i3 Tiger Lake-UP3
 Intel® Iris® Xe/ UHD Graphics Engine
 1-260-pin DDR4 3200MHz SO-DIMM, Suppc 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 S
 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



Spec

System Information

Processor

Intel® Core™ i5-1135G7 (TDP 15W) (Default)
 Intel® Core™ i3-1115G4 (TDP 15W) (Default)
 Intel® Core™ i7-1165G7 (TDP 15W) (Project Based)
 Intel® Core™ i7-1185G7E (TDP 15W) (Project Based)
 Intel® Core™ i5-1145G7 (TDP 15W) (Project Based)
 Intel® Celeron 6305E (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

dTPM 2.0

SBC

ECM-TGUC

Expansion-

M.2

1 x M.2 Key-E 2230 (PCIe, USB 2.0)
 1 x M.2 Key-B 2242/3042/3052 with 1x SIM Slot (SATA, USB3.2, USB 2.0), share with Storage

Storage-

M.2

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

Front I/O-

Power Button

1 x Power Button w/LED

Rear I/O-

USB Port

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

DP

2 x DP++

Audio

1 x Line-Out
 1 x Mic-In

RJ-45

2 x RJ-45

LED Indicator

1 x Power On/Off
 1 x Storage Access

Antenna

2 x Antenna Mounting with Dust Protection Cover

Right I/O-

Antenna

2 x Antenna Mounting with Dust Protection Cover

Left I/O-

Antenna

2 x Antenna Mounting with Dust Protection Cover

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

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-**DC Input Voltage**

12Vdc

W

**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

AC to DC Adapter 60W

.-Software Support-**OS Information**

Win11 64bits, Win10, Linux

.-Certification-**Certification Information**

CE, FCC Class A, UKCA

.-In-Box Accessory-**Accessory**

1 x AC to DC Adapter, 1 x Wall Mount, 4 x Rubber Feets, 1 x Screw Kit

.-Mechanical & Environmental**Operating Temperature**

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 Temperature

-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

Construction

Aluminum + Metal

.-Ordering Information**Ordering Information**

ACS10-TGU-A1-1R, ACS10-TGU w/ i3-1115G4
ACS10-TGU-A1-2R, ACS10-TGU w/ i5-1135G7

Power Cord information

USA Power Cord: E1702031833R

UK Power Cord: E170P060380R

EU Power Cord: E1702031000R

Australia Power Cord: E1702031831R

Bracket for M.2 Key-B 2242/3042 peripherals

E195BK00000002R & E1932000300R & E1932030401R 1pc

W