



## ACS10-TGU

### 11th Gen Intel® Tiger Lake Fanless Tiny System

- > 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 32
- > 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

#### + Spec

##### System Information (CS)

<b>Processor</b>	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)
<b>System Memory</b>	Single 260-Pin SO-DIMM Socket, Max. Up to 32GB DDR4 3200MHz
<b>BIOS Information</b>	AMI uEFI BIOS, 256Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 1sec. – 65535sec./min.1sec. or 1min. step
<b>H/W Status Monitor</b>	CPU temperature monitoring and voltage monitoring
<b>TPM</b>	dTPM 2.0
<b>SBC</b>	ECM-TGUC

##### Expansion (CS)

<b>M.2</b>	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
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##### Storage (CS)

<b>M.2</b>	1 x M.2 Key-B 2242 (SATA3) 1 x M.2 Key-M 2280 NVMe (PCIe Gen4 x 4)
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##### Edge I/O (Front) (CS)

<b>Power Button</b>	1 x Power Button w/LED
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##### Edge I/O (Rear) (CS)

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

##### Edge I/O (Right) (CS)

<b>Antenna</b>	2 x Antenna Mounting with Dust Protection Cover
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##### Edge I/O (Left) (CS)

<b>Antenna</b>	2 x Antenna Mounting with Dust Protection Cover
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##### Display (CS)

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

##### Audio (CS)

<b>Audio Codec</b>	RealTek ALC888S-VD2-GR
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##### Ethernet (CS)

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

##### Power Requirement (CS)

<b>DC Input</b>	12Vdc
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<b>DC Input Connector</b>	Lockable DC Jack
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<b>ACPI</b>	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>Adapter</b>	AC to DC Adapter 60W
<b>Software Support (CS)</b>	
<b>OS Information</b>	Win11 64bits, Win10, Linux
<b>Certification (CS)</b>	
<b>Certification Information</b>	CE, FCC Class A, UKCA
<b>In-Box Accessory (CS)</b>	
<b>Accessory</b>	1 x AC to DC Adapter, 1 x Wall Mount, 4 x Rubber Fools, 1 x Screw Kit
<b>Mechanical &amp; Environmental</b>	
<b>Operating Temperature</b>	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
<b>Storage Temperature</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Dimension (W x L x H)</b>	188mm x 120mm x 48mm
<b>Weight</b>	835g
<b>Vibration Test</b>	with SSD: 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
<b>Shock Test</b>	IEC 60068-2-27, Half Sine, 11ms
<b>Drop Test</b>	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
<b>Mounting Kit</b>	Wall Mount Kit
<b>Construction</b>	Aluminum + Metal
<b>Ordering Information</b>	
<b>Ordering Information</b>	ACS10-TGU-A1-1R, ACS10-TGU w/ i3-1115G4 ACS10-TGU-A1-2R, ACS10-TGU w/ i5-1135G7