



## ACS10-TGU

11th Gen Intel® Tiger Lake Fanless Compact 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         |                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor</b>           | Intel® Core™ i5-1135G7 (TDP 15W) (Default)<br>Intel® Core™ i3-1115G4 (TDP 15W) (Default)<br>Intel® Core™ i7-1165G7 (TDP 15W) (Project Based)<br>Intel® Core™ i7-1185G7E (TDP 15W) (Project Based)<br>Intel® Core™ i5-1145G7 (TDP 15W) (Project Based)<br>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                                                                                                                                                                                                                                                                                                |
| <b>-Expansion-</b>         |                                                                                                                                                                                                                                                                                                         |
| <b>M.2</b>                 | 1 x M.2 Key-E 2230 (PCIe, USB 2.0)<br>1 x M.2 Key-B 2242/3042/3052 with 1x SIM Slot (SATA, USB3.2, USB 2.0), share with Storage                                                                                                                                                                         |
| <b>-Storage-</b>           |                                                                                                                                                                                                                                                                                                         |
| <b>M.2</b>                 | 1 x M.2 Key-B 2242 (SATA3)<br>1 x M.2 Key-M 2280 NVMe (PCIe Gen4 x 4)                                                                                                                                                                                                                                   |
| <b>-Front I/O-</b>         |                                                                                                                                                                                                                                                                                                         |
| <b>Power Button</b>        | 1 x Power Button w/LED                                                                                                                                                                                                                                                                                  |
| <b>-Rear I/O-</b>          |                                                                                                                                                                                                                                                                                                         |
| <b>USB Port</b>            | 3 x USB 3.2 Gen.2<br>3 x USB 2.0                                                                                                                                                                                                                                                                        |
| <b>COM Port</b>            | 1 x RS-232/422/485 (Default RS-232)<br>1 x RS-232                                                                                                                                                                                                                                                       |
| <b>DP</b>                  | 2 x DP++                                                                                                                                                                                                                                                                                                |
| <b>Audio</b>               | 1 x Line-Out<br>1 x Mic-In                                                                                                                                                                                                                                                                              |
| <b>RJ-45</b>               | 2 x RJ-45                                                                                                                                                                                                                                                                                               |
| <b>LED Indicator</b>       | 1 x Power On/Off<br>1 x Storage Access                                                                                                                                                                                                                                                                  |
| <b>Antenna</b>             | 2 x Antenna Mounting with Dust Protection Cover                                                                                                                                                                                                                                                         |
| <b>-Right I/O-</b>         |                                                                                                                                                                                                                                                                                                         |
| <b>Antenna</b>             | 2 x Antenna Mounting with Dust Protection Cover                                                                                                                                                                                                                                                         |
| <b>-Left I/O-</b>          |                                                                                                                                                                                                                                                                                                         |
| <b>Antenna</b>             | 2 x Antenna Mounting with Dust Protection Cover                                                                                                                                                                                                                                                         |
| <b>-Display-</b>           |                                                                                                                                                                                                                                                                                                         |
| <b>Graphic Chipset</b>     | Intel® Iris® Xe Graphics (i7-1165G7/ i5-1135G7)<br>Intel® UHD Graphics for 11th Gen Intel® Processors (i3-1115G4)                                                                                                                                                                                       |
| <b>Resolution</b>          | DP++ 1.4: 4096x2304@60Hz                                                                                                                                                                                                                                                                                |
| <b>-Audio-</b>             |                                                                                                                                                                                                                                                                                                         |
| <b>Audio Codec</b>         | RealTek ALC888S-VD2-GR                                                                                                                                                                                                                                                                                  |
| <b>-Ethernet-</b>          |                                                                                                                                                                                                                                                                                                         |
| <b>LAN Chipset</b>         | Intel® Ethernet Connection I219-LM (1G)<br>Intel® Ethernet Controller I225-V (2.5G)                                                                                                                                                                                                                     |
| <b>Specification</b>       | 10/100/1000 Gigabit (I219-LM)<br>10/100/1000/2500 Gigabit (I225-V)                                                                                                                                                                                                                                      |
| <b>-Power Requirement-</b> |                                                                                                                                                                                                                                                                                                         |
| <b>DC Input Voltage</b>    | 12Vdc                                                                                                                                                                                                                                                                                                   |

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|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DC Input Connector</b>             | Lockable DC Jack                                                                                                                                                                                                                                                                                                                                                                        |
| <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-</b>             |                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>OS Information</b>                 | Win11 64bits, Win10, Linux                                                                                                                                                                                                                                                                                                                                                              |
| <b>-Certification-</b>                |                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Certification Information</b>      | CE, FCC Class A, UKCA                                                                                                                                                                                                                                                                                                                                                                   |
| <b>-In-Box Accessory-</b>             |                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Accessory</b>                      | 1 x AC to DC Adapter, 1 x Wall Mount, 4 x Rubber Feet, 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<br>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>           | <p>ACS10-TGU-A1-1R, ACS10-TGU w/ i3-1115G4<br/> ACS10-TGU-A1-2R, ACS10-TGU w/ i5-1135G7</p> <p>Power Cord information<br/> USA Power Cord: E1702031833R<br/> UK Power Cord: E170P060380R<br/> EU Power Cord: E1702031000R<br/> Australia Power Cord: E1702031831R</p> <p>Bracket for M.2 Key-B 2242/3042 peripherals<br/> E195BK00000002R &amp; E1932000300R &amp; E1932030401R 1pc</p> |

## Assured Systems

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