



## NUC-TGU

### 11th Gen Intel® Tiger Lake Fanless NUC Slim System

- > Intel® 11th Tiger Lake-U Processor
- > Intel® Iris® Xe Graphics
- > Single Memory Socket, Max. Up to 32GB DDR4 3200
- > Dual Display, HDMI 2.0b
- > Dual Intel® Gigabit Ethernet, 2.5GbE, 1GbE
- > Triple M.2 Slot, Key-E/B/M for Wi-Fi, LTE, SSD, I/O module
- > Supports iAMT, Kensington Lock
- > Default dTPM 2.0, Mounting Kit

#### + Spec

##### System Information

|                           |                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor</b>          | Intel® Core™ Processor i7-1165G7 (15W)<br>Intel® Core™ Processor i5-1135G7 (15W)<br>Intel® Core™ Processor i3-1115G4 (15W)<br>Intel® Core™ Processor i7-1185G7E (15W)<br>Intel® Core™ Processor i5-1145G7E (15W)<br>Intel® Core™ Processor i3-1115G4E (15W) |
| <b>System Memory</b>      | 1 x 260-pin DDR4 SODIMM Socket, Supports Up to 32GB DDR4 3200MTs SDRAM                                                                                                                                                                                      |
| <b>I/O Chipset</b>        | EC ITE IT5571VG-I-128/CX                                                                                                                                                                                                                                    |
| <b>BIOS Information</b>   | AMI BIOS, 128Mbit SPI Flash ROM                                                                                                                                                                                                                             |
| <b>Watchdog Timer</b>     | H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step                                                                                                                                                                                                         |
| <b>H/W Status Monitor</b> | Monitoring CPU Temperature, Voltage with Auto Throttling Control                                                                                                                                                                                            |
| <b>TPM</b>                | TPM2.0                                                                                                                                                                                                                                                      |
| <b>iAMT</b>               | Above Core i5 (selected SKUs)                                                                                                                                                                                                                               |
| <b>SBC</b>                | NCM-TGU                                                                                                                                                                                                                                                     |

##### -Expansion-

|            |                                                                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>M.2</b> | 1 x M.2 Key-M 2280 (PCIe Gen4 x 4)<br>1 x M.2 Key-B 2242/3042/3052 with Internal SIM Slot (PCIe, SATA, USB 2.0)<br>1 x M.2 Key-E 2230 (PCIe, USB 2.0) |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

##### -Storage-

|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| <b>M.2</b> | 1 x M.2 Key-M 2280 NVMe (PCIe Gen4 x 4)<br>1 x M.2 Key-B 2242 (PCIe Gen4 x1, SATA3) |
|------------|-------------------------------------------------------------------------------------|

##### -Front I/O-

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>USB Port</b>      | 2 x USB 2.0                             |
| <b>COM Port</b>      | 2 x RS232/422/485 (BIOS)                |
| <b>Audio</b>         | 1 x Line-Out, 1 x Mic-In                |
| <b>Power Button</b>  | 1 x Power On/Off w/LED                  |
| <b>LED Indicator</b> | 1 x Data Access<br>1 x Wi-Fi<br>1 x LTE |

##### -Rear I/O-

|                 |                            |
|-----------------|----------------------------|
| <b>USB Port</b> | 4 x USB 3.2 Gen.2 (10Gbps) |
| <b>HDMI</b>     | 2 x HDMI 2.0b              |
| <b>RJ-45</b>    | 2 x RJ45                   |

##### -Right I/O-

|                |                                                 |
|----------------|-------------------------------------------------|
| <b>Antenna</b> | 2 x Antenna Mounting with Dust Protection Cover |
|----------------|-------------------------------------------------|

##### -Left I/O-

|                |                                                 |
|----------------|-------------------------------------------------|
| <b>Antenna</b> | 2 x Antenna Mounting with Dust Protection Cover |
|----------------|-------------------------------------------------|

##### -Display-

|                        |                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------|
| <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>      | 2 x HDMI 2.0b: 4096x2304@60Hz                                                                                    |

##### -Audio-

|                    |                        |
|--------------------|------------------------|
| <b>Audio Codec</b> | RealTek ALC888S-VD2-GR |
|--------------------|------------------------|

##### -Ethernet-

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| <b>LAN Chipset</b>   | 1 x Intel® I225-LM<br>1 x Intel® I219-LM                           |
| <b>Specification</b> | 10/100/1000/2.5 Gigabit (I225-LM)<br>10/100/1000 Gigabit (I219-LM) |

##### -Power Requirement-

|                         |      |
|-------------------------|------|
| <b>DC Input Voltage</b> | +12V |
|-------------------------|------|



|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DC Input Connector</b>             | 1 x Lockable DC Jack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ACPI</b>                           | Single power ATX Support S0, S3, S4, S5<br>ACPI 5.0 Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Power Mode</b>                     | AT/ATX (ATX is default setting)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Adapter</b>                        | AC to DC Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>-Software Support-</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>OS Information</b>                 | Win10, Win11, Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>-Certification-</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Certification Information</b>      | CE, FCC Class B, UKCA<br>Wi-Fi 6E certified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Power Requirement</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Adapter</b>                        | AC to DC Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Mechanical &amp; Environmental</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Operating Temperature</b>          | With extended temperature peripherals: 0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s air flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Temperature</b>            | -30~70°C (-22°F ~ 158°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Operating Humidity</b>             | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Dimension (W x L x H)</b>          | 170mm x 125mm x 36mm (6.69" x 4.92" x 1.42")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Weight</b>                         | 0.85kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Vibration Test</b>                 | With SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 30min/Axis, 3 Axis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Shock Test</b>                     | With SSD: 55G, IEC 60068-2-27, Half Sine, 11ms, Z Axis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Drop Test</b>                      | ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>IP Rating</b>                      | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Mounting Kit</b>                   | Table Stand/Din Rail/VESA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Kensington Lock</b>                | 1 x Kensington Lock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Construction</b>                   | Aluminum + Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Ordering Information</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Ordering Information</b>           | NUC-TGU-I7-A1-1R<br>11th Gen Intel®Core™ Processor i7-1165G7 Fanless NUC Slim System<br>NUC-TGU-I5-A1-1R<br>11th Gen Intel®Core™ Processor i5-1135G7 Fanless NUC Slim System<br>NUC-TGU-I3-A1-1R<br>11th Gen Intel®Core™ Processor i3-1115G4 Fanless NUC Slim System<br>NUC-TGU-I7E-A1-1R<br>11th Gen Intel®Core™ Processor i7-1185G7E Fanless NUC Slim System<br>NUC-TGU-I5E-A1-1R<br>11th Gen Intel®Core™ Processor i5-1145G7E Fanless NUC Slim System<br>NUC-TGU-I3E-A1-1R<br>11th Gen Intel®Core™ Processor i3-1115G4E Fanless NUC Slim System<br><br>E1702031831R Australia Power Cord<br><br>E1702031833R USA Power Cord<br><br>E1702031834R Japan Power Cord<br><br>E170P060380R UK Power Cord<br><br>E1702031000R EU Power Cord |

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## Assured Systems

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