



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 (CS)	
Processor	Intel® Core™ i7-1165G7 Processor (15W, 12M Cache, up to 4.70 GHz) Intel® Core™ i5-1135G7 Processor (15W, 8M Cache, up to 4.20 GHz) Intel® Core™ i3-1115G4 Processor (15W, 6M Cache, up to 4.1 GHz) Intel® Core™ i7-1185G7E Processor (15W, 12M Cache, up to 2.80 GHz) Intel® Core™ i5-1145G7E Processor (15W, 8M Cache, up to 2.60 GHz) Intel® Core™ i3-1115G4E Processor (15W, 6M Cache, up to 3.00 GHz)
System Memory	1 x 260-pin DDR4 SODIMM Socket, Supports Up to 32GB DDR4 3200MTs SDRAM
I/O Chipset	EC ITE IT5571VG-I-128/CX
BIOS Information	AMI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
H/W Status Monitor	Monitoring CPU Temperature, Voltage with Auto Throttling Control
TPM	TPM2.0
iAMT	Above Core i5 (selected SKUs)
SBC	NCM-TGU
Expansion (CS)	
M.2	1 x M.2 Key-M 2280 (PCIe Gen4 x4) 1 x M.2 Key-B 2242/3042/3052 with Internal SIM Slot (PCIe, SATA, USB 2.0) 1 x M.2 Key-E 2230 (PCIe, USB 2.0)
Storage (CS)	
M.2	1 x M.2 Key-M 2280 NVMe (PCIe Gen4 x4) 1 x M.2 Key-B 2242 ((PCIe Gen4 x1, SATA3)
Edge I/O (Front) (CS)	
USB Port	2 x USB 2.0
COM Port	2 x RS232/422/485 (BIOS)
Audio	1 x Line-Out, 1 x Mic-In
Power Button	1 x Power On/Off w/LED
LED Indicator	1 x Data Access 1 x Wi-Fi 1 x LTE
Edge I/O (Rear) (CS)	
USB Port	4 x USB 3.2 Gen.2 (10Gbp/s)
HDMI	2 x HDMI 2.0b
RJ-45	2 x RJ45
Edge I/O (Right) (CS)	
Antenna	2 x Antenna Mounting with Dust Protection Cover
Edge I/O (Left) (CS)	
Antenna	2 x Antenna Mounting with Dust Protection Cover
Display (CS)	
Graphic Chipset	Intel® Iris® Xe Graphics (i7-1165G7/i5-1135G7) Intel® UHD Graphics for 11th Gen Intel® Processors (i3-1115G4)
Resolution	2 x HDMI 2.0b: 4096x2304@60Hz
Audio (CS)	
Audio Codec	RealTek ALC888S-VD2-GR
Ethernet (CS)	
LAN Chipset	1 x Intel® I225-LM 1 x Intel® I219-LM
Specification	10/100/1000/2.5 Gigabit (I225-LM) 10/100/1000 Gigabit (I219-LM)
Power Requirement (CS)	
DC Input	+12V



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

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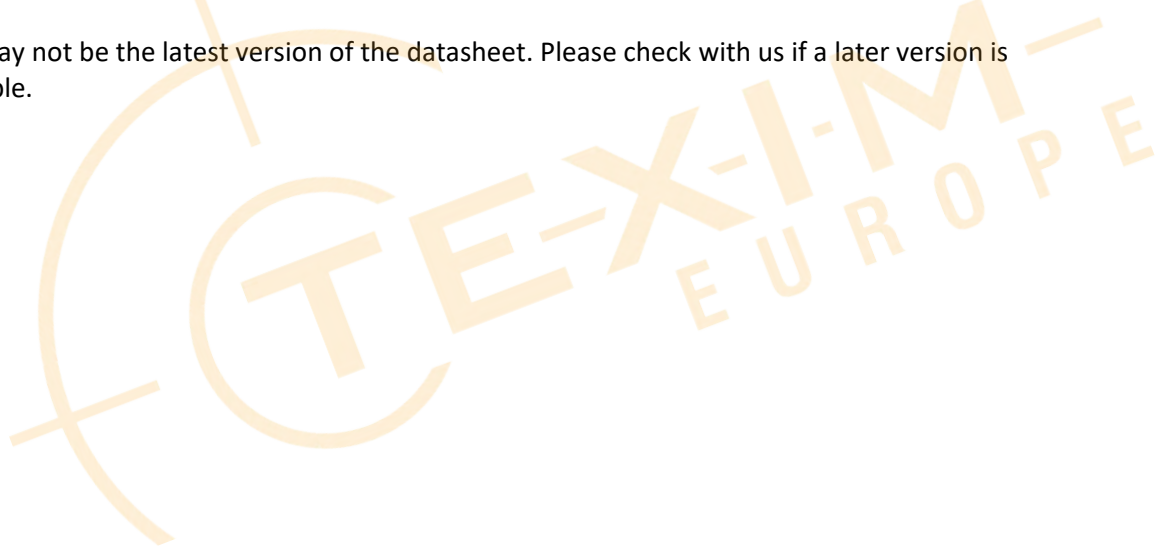
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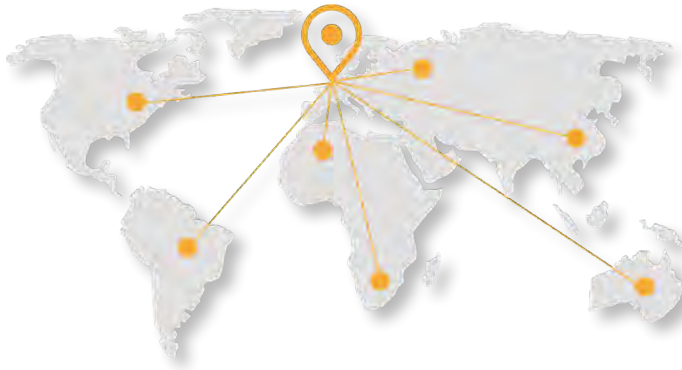
Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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