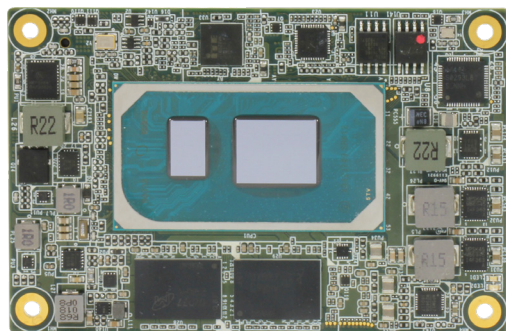


NanoCOM-TGU

COM Express Type 10 with 11th Gen Intel® Core™ Processors



Features

- Onboard LPDDR4, up to 16GB
- SATA III x 2, Onboard PCIe SSD x 1
- eDP x 1, DP x 1
- USB 2.0 x 8, USB 3.2 Gen 2 x 2
- PCIe 3.0 [x1] x 4
- Intel® I225-LM 2.5GbE x 1
- COM Express Type 10, 3.31" x 2.17" (84mm x 55mm)



Distributed by:



Specifications

System	
Form Factor	COM Express Mini Size, Type 10
CPU	11th Generation Intel® Core™ Processors: Intel® Core™ i7-1185G7E (4C/8T, 1.80 GHz, 15W) Intel® Core™ i5-1145G7E (4C/8T, 1.50 GHz, 15W) Intel® Core™ i3-1115G4E (2C/4T, 2.20 GHz, 15W) Intel® Core™ i7-1185G6E (4C/8T, 1.80 GHz, 15W) Intel® Core™ i5-1145G6E (4C/8T, 1.80 GHz, 15W) Intel® Core™ i3-1115G6E (2C/4T, 2.20 GHz, 15W)
Chipset	Integrated with Intel® SoC
Memory	Onboard LPDDR4 4267MHz, up to 16GB
Onboard Storage	NVMe, up to 256GB (Optional)
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	3.31" x 2.17" (84mm x 55mm)
Security	fTPM
Power	
Power Requirement	+12V and +5VSB for ATX, +12V for AT
Power Type	AT/ATX
Power Consumption (Typical)	Intel® Core™ i7-1185G7E, 2.75A @+12V
Display	
Graphics Controller	Intel® UHD Graphics for 11th Gen Intel® Processors
Video Output	Dual Display: DP x 1, up to 3840 x 2160 eDP x 1, up to 3840 x 2160
I/O	
Ethernet	Intel® I225-LM/IT 2.5GbE x 1
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 8, USB 3.2 Gen 2 x 2
Serial Port	2-Wire UART x 2 (Tx/Rx)
HDD Interface	SATA III x 2

Expansion	PCIe 3.0 [x1] x 4 LPC x 1
GPIO	8-bit
SMBus/I2C	I2C x 1, SMBus x 1
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) WITAS 2: -40°F ~ 185°F (-40°C ~ 85°C) on selected CPU SKU
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
EMC	CE/FCC Class A
OS Support	Windows® 10 (64-bit) Linux Ubuntu 20.04.4/Kernel 5.13.0
Weight	0.15 lb. (0.07Kg)

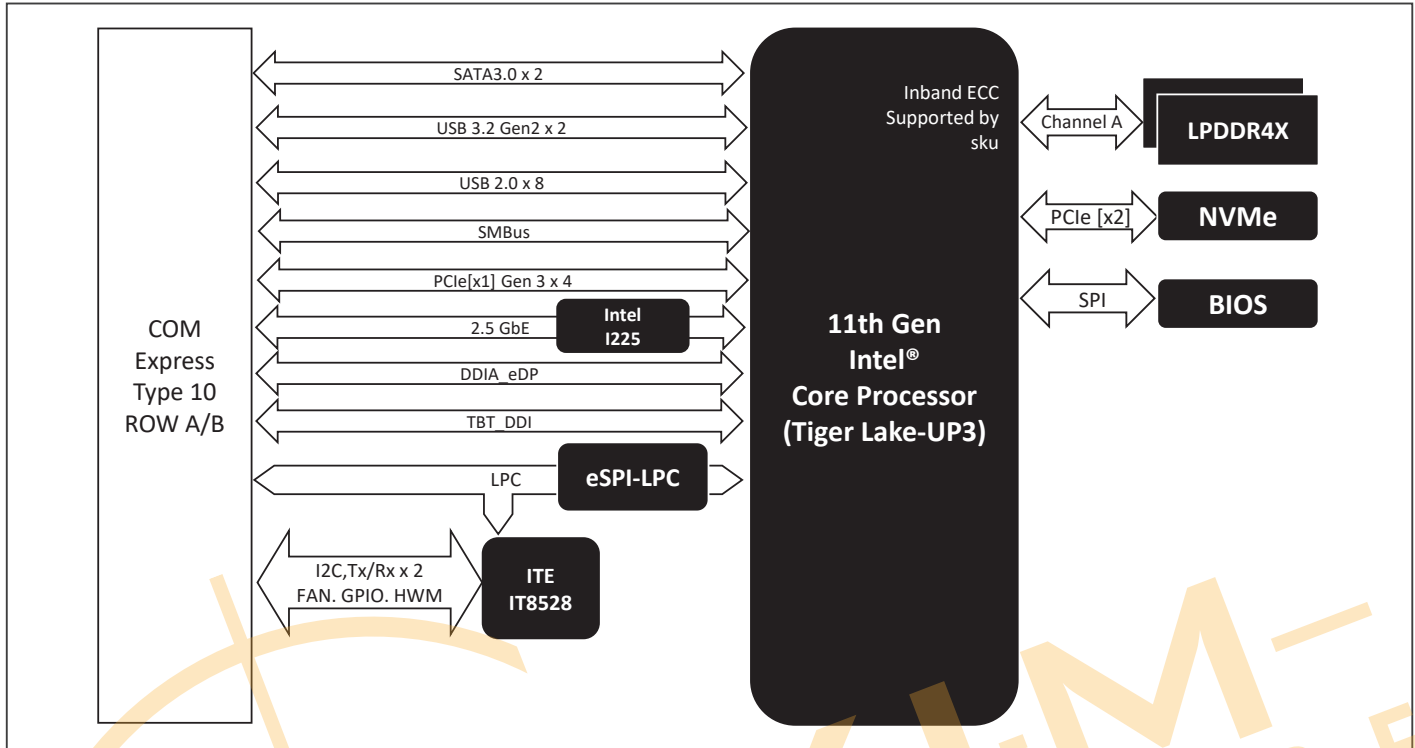
Packing List

- NANOCOM-TGU

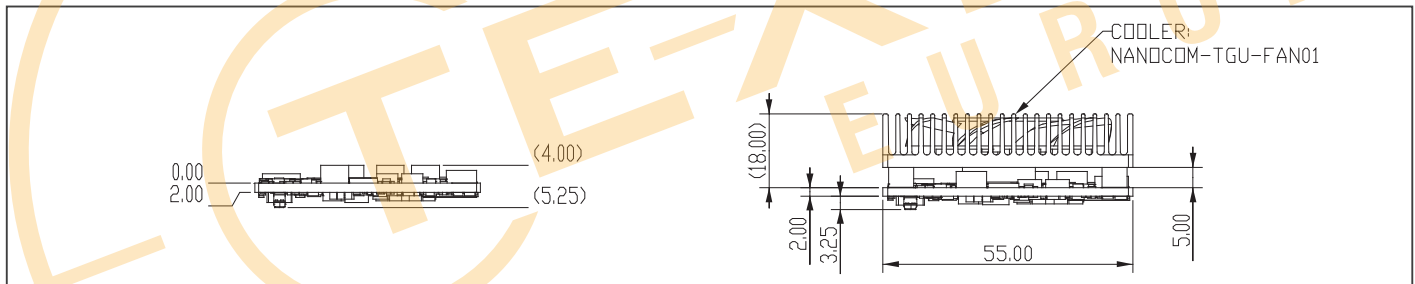
Optional Accessories

Part Number	Description
ECB-920A-A11-0001	COMe Type 6/10 Carrier Board. ATX. 2.5GbE. 8USB. 2COM. 4SATA. PCIe. AT/ATX. Rev. A1.1
NanoCOM-TGU-Fan01	Cooler. 84 x 55 x 18 mm. 4pin.
NanoCOM-TGU-HSP01	Heat Spreader. 84 x 55 x 11 mm. Black

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
NANOCOM-TGU-A10-0001	Type 10	Intel® Core™ i7-1185G7E	16GB Onboard DDR4	—	eDP x 1, DDI x 1	SATA III x 2, 64GB NVMe	Intel® I225-LM x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe 3.0 [x1] x 4	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-TGU-A10-0002	Type 10	Intel® Core™ i5-1145G7E	16GB Onboard DDR4	—	eDP x 1, DDI x 1	SATA III x 2, 64GB NVMe	Intel® I225-LM x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe 3.0 [x1] x 4	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-TGU-A10-0003	Type 10	Intel® Core™ i3-1115G4E	8GB Onboard DDR4	—	eDP x 1, DDI x 1	SATA III x 2, 64GB NVMe	Intel® I225-LM x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe 3.0 [x1] x 4	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-TGU-A10-0005	Type 10	Intel® Core™ i7-1185GRE	16GB Onboard DDR4	in-band ECC	eDP x 1, DDI x 1	SATA III x 2, 64GB NVMe	Intel® I225-LM x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe 3.0 [x1] x 4	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-TGUW2-A10-0001	Type 10	Intel® Core™ i7-1185GRE	16GB Onboard DDR4	—	eDP x 1, DDI x 1	SATA III x 2, 128GB NVMe	Intel® I225-IT x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe 3.0 [x1] x 4	12V	-40°C ~ 85°C	LPC, GPIO 8-bit, I2C, SMBus

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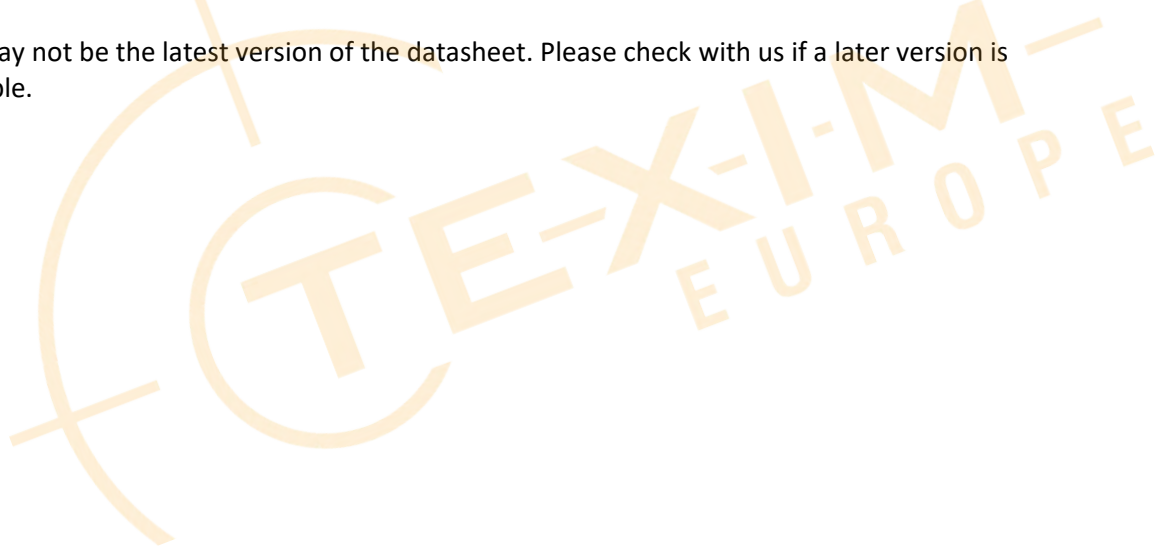
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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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