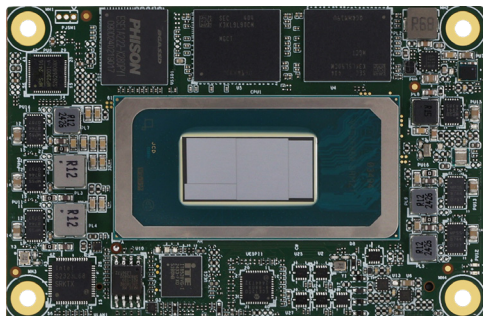




NanoCOM-MTU

COM Express Type 10 with Intel® Core™ Ultra Series Processors



Features

- Onboard LPDDR5(X), up to 32GB
- Onboard NVMe, up to 256GB
- eDP x 1, DDI x 1
- USB 2.0 x 8, USB 3.2 Gen 2 x 2
- PCIe 4.0 [x1] x 4
- Intel® Ethernet Controller I226-V/IT 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	Intel® Core™ Ultra Processors: Intel® Core™ Ultra 7 Processor 155H (16C/22T, up to 4.8 GHz, 28W) Intel® Core™ Ultra 5 Processor 125H (14C/18T, up to 4.5 GHz, 28W)
Chipset	Integrated with Intel® SoC
Memory	onboard LPDDR5(X) 6400MHz, up to 32GB
Onboard Storage	NVMe, up to 256GB
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	3.31" x 2.17" (84mm x 55mm)
Security	fTPM / dTPM (Default)
Power	
Power Requirement	+9V-19V and +5VSB for ATX, +9-19V for AT
Power Type	AT/ATX, switch by BIOS
Power Consumption (Typical)	Intel® Core™ Ultra 7 Processor 155H, 2.06A@+19V
Display	
Graphics Controller	Intel® Arc™ Graphics
Video Output	Dual Display: DDI x 1, up to 3840 x 2160 eDP x 1, up to 3840 x 2160 @60Hz
I/O	
Ethernet	Intel® Ethernet Controller I226, 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 6Gb/s x 2
Expansion	PCIe 4.0 [x1] x 4 MIPI CSI x 2 LPC x 1

GPIO	8-bit
SMBus/I2C	I2C x 1, from EC (default) or CPU, switch by BIOS SMBus x 1, from CPU
Environment	
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
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® 11 (64-bit) Linux Ubuntu 24.04.1/Kernel 6.8
Weight	0.15 lb. (0.07Kg)

Packing List

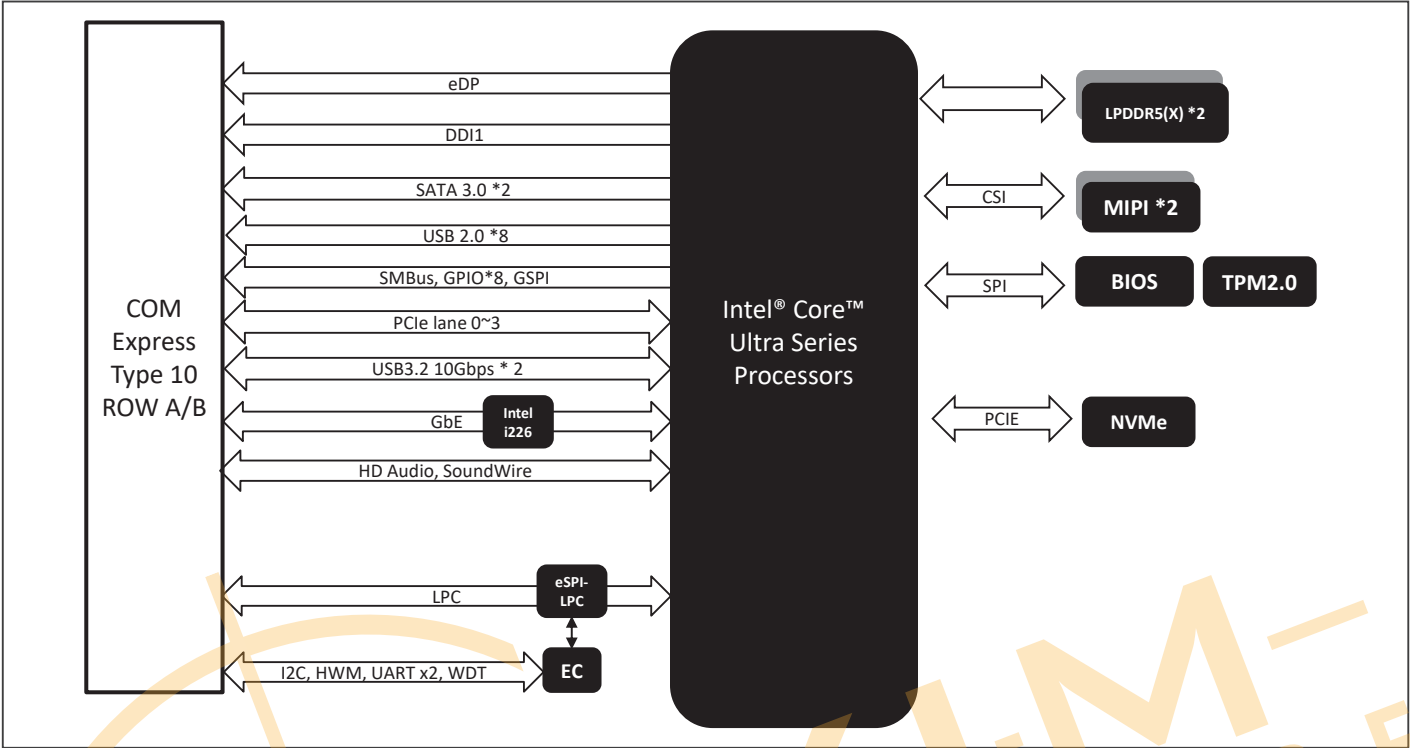
- NanoCOM-MTU

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-MTU-FAN01	Cooler. 84 x 55 x 43.40mm. 4pin
NANOCOM-MTU-HSP01	Heat Spreader. 84 x 55 x 11mm. Black

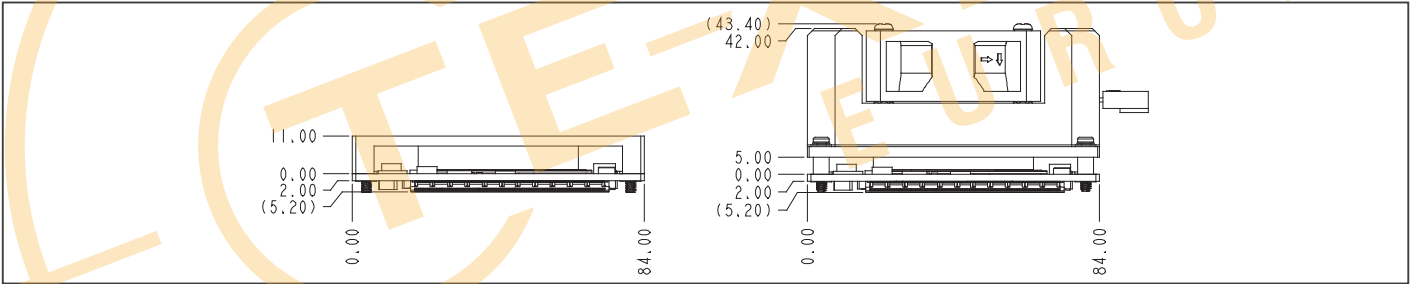


Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
NANOCOM-MTU-A10-0001	Type 10	Intel® Core™ Ultra 7 155H	16GB LPDDR5X	—	eDP x 1, DDI x 1	SATA III x 2 128GB NVMe	Intel® Ethernet Controller 1226-IT x 1	USB 3.2 Gen 2 x 2, USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe 4.0 [x1] x 4	9V~19V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C(EC), SMBus, MIPI CSI x 2
NANOCOM-MTU-A10-0002	Type 10	Intel® Core™ Ultra 5 125H	16GB LPDDR5X	—	eDP x 1, DDI x 1	SATA III x 2 128GB NVMe	Intel® Ethernet Controller 1226-IT x 1	USB 3.2 Gen 2 x 2, USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe 4.0 [x1] x 4	9V~19V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C(EC), SMBus, MIPI CSI x 2

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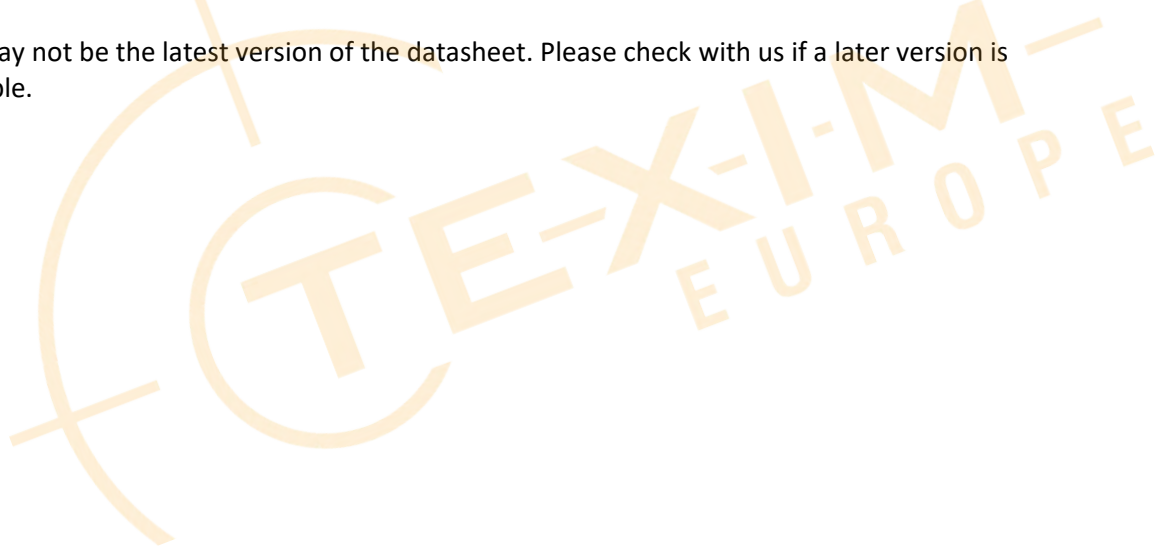
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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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