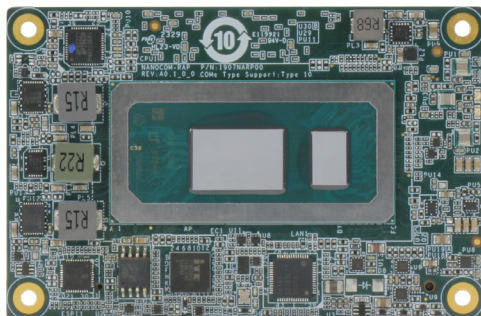


NanoCOM-RAP

COM Express Type 10 with 13th Generation Intel® Core™ U-series Processors



Features

- Onboard LPDDR5, up to 16GB
- Onboard NVMe, up to 128GB (Optional)
- eDP x 1, DDI x 1
- USB 2.0 x 8, USB 3.2 Gen 2 x 2
- PCIe [x1] x 4
- Intel® I226-IT GbE 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	13th Generation Intel® Core™ U-series Processors: Intel® Core™ i7-1365UE (10C/12T, 1.70 GHz, 15W) Intel® Core™ i5-1335UE (10C/12T, 1.30 GHz, 15W) Intel® Core™ i3-1315UE (6C/8T, 1.20 GHz, 15W) Intel® Processor U300E (5C/6T, 1.10 GHz, 15W)
Chipset	Integrated with Intel® SoC
Memory	Onboard LPDDR5, up to 16GB
Onboard Storage	NVMe, up to 128GB (Optional)
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	3.31" x 2.17" (84mm x 55mm)
Security	TPM2.0
Power	
Power Requirement	+9V-15V and +5VSB for ATX, +9-15V for AT
Power Type	AT/ATX
Power Consumption (Typical)	Intel® Core™ i7-1365UE, LPDDR5 16GB, 2.82A@ +12V
Display	
Graphics Controller	Intel® UHD Graphics for 13th Gen Intel® Processors
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® I226-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 6Gb/s x 2

Expansion	PCIe [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 22.04.2/Kernel 5.19
Weight	0.15 lb. (0.07Kg)

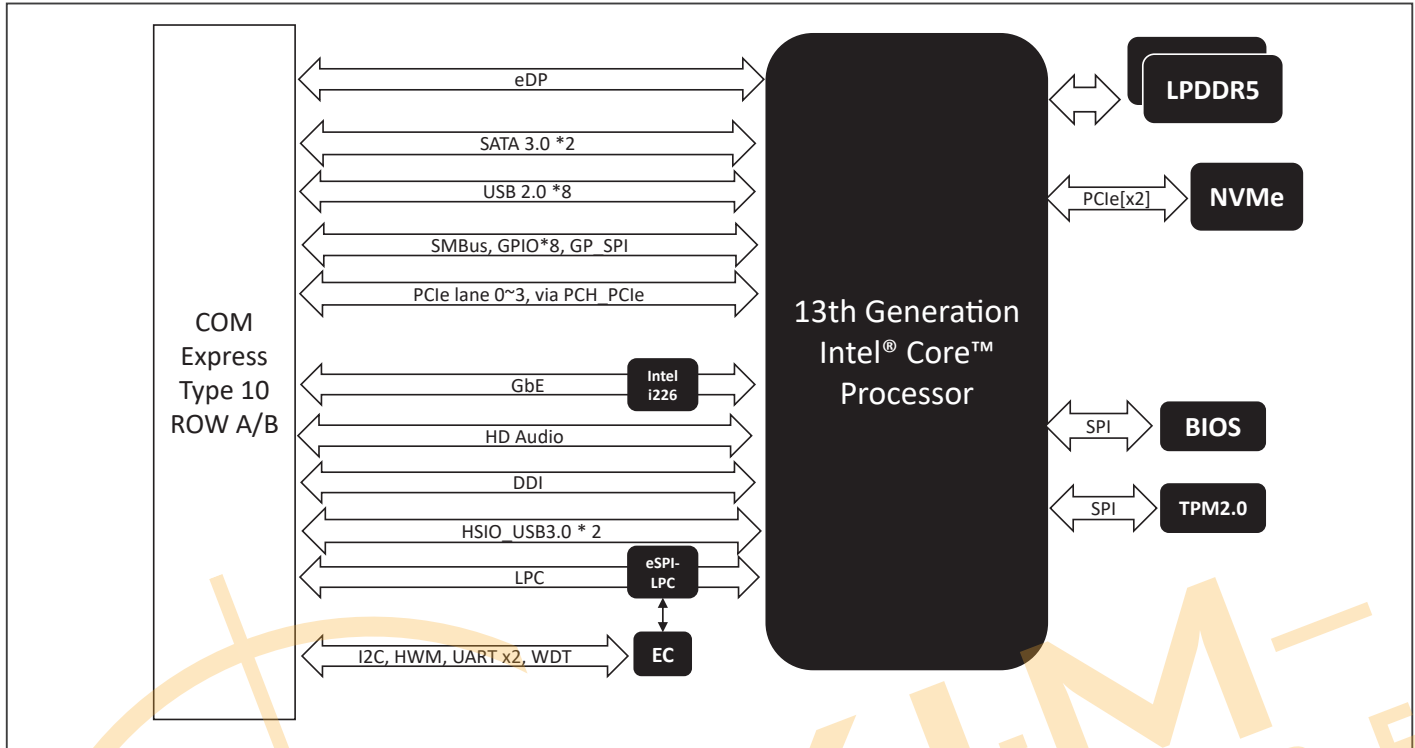
Packing List

- NANOCOM-RAP

Optional Accessories

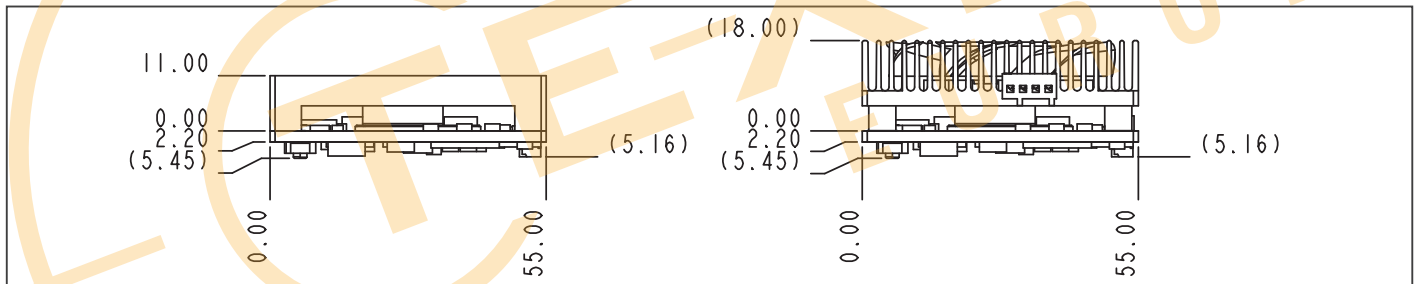
Part Number	Description
ECB-920A-A11-0001	COMe Type 6/10 Carrier Board. ATX. 2.5GbE. 8USB. 2COM. 4SATA. PCIe. AT/ATX. Rev. A1.1
NANOCOM-RAP-HSP01	Heat Spreader. 84 x 55 x 11 mm. Black
NANOCOM-RAP-FAN01	Cooler. 84 x 55 x 18 mm. 4pin.

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-RAP-A10-0001	Type 10	Intel® Core™ i7-1365UE	16GB Onboard LPDDR5x	—	eDP x 1, DDI x 1	SATA III x 2 128GB NVMe	Intel® I226-IT x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 4	9V-15V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-RAP-A10-0002	Type 10	Intel® Core™ i5-1335UE	16GB Onboard LPDDR5x	—	eDP x 1, DDI x 1	SATA III x 2 128GB NVMe	Intel® I226-IT x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 4	9V-15V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-RAP-A10-0003	Type 10	Intel® Core™ i3-1315UE	8GB Onboard LPDDR5x	—	eDP x 1, DDI x 1	SATA III x 2 64GB NVMe	Intel® I226-IT x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 4	9V-15V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-RAP-A10-0004	Type 10	Intel® Processor U300E	8GB Onboard LPDDR5x	—	eDP x 1, DDI x 1	SATA III x 2 64GB NVMe	Intel® I226-IT x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 4	9V-15V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-RAPW2-A10-0001	Type 10	Intel® Core™ i7-1365URE	16GB Onboard LPDDR5x	—	eDP x 1, DDI x 1	SATA III x 2 128GB NVMe	Intel® I226-IT x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 4	9V-15V	-40°C ~ 85°C	LPC, GPIO 8-bit, I2C, SMBus

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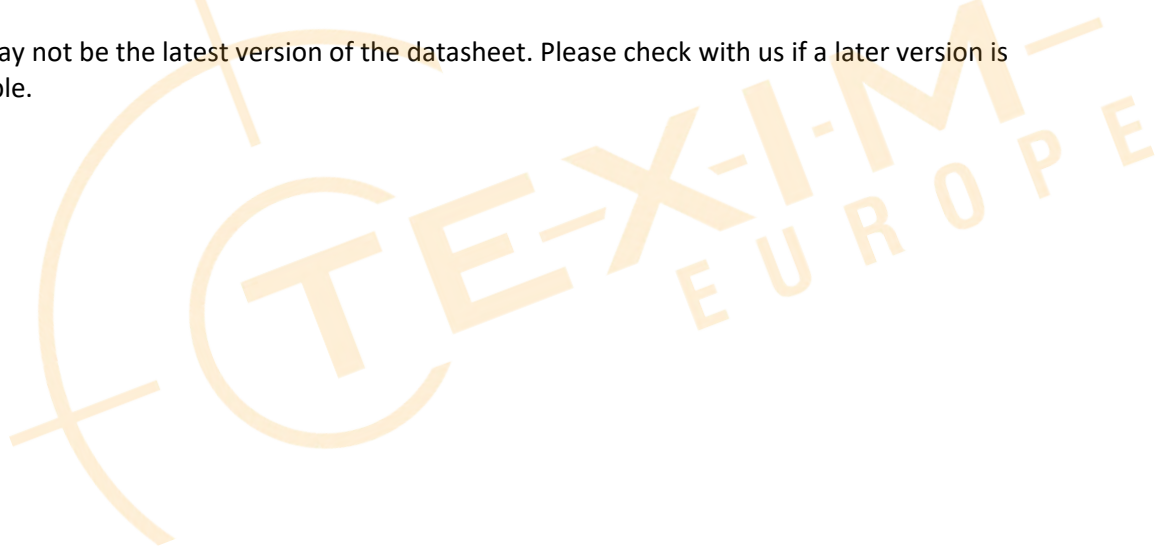
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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.





Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com



The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

T: +32 (0)2 462 01 00
E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
E: uk@texim-europe.com



Germany

Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com



Austria

Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
E: austria@texim-europe.com



Nordic

Stockholmsgade 45
2100 Copenhagen

T: +45 88 20 26 30
E: nordic@texim-europe.com



Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com