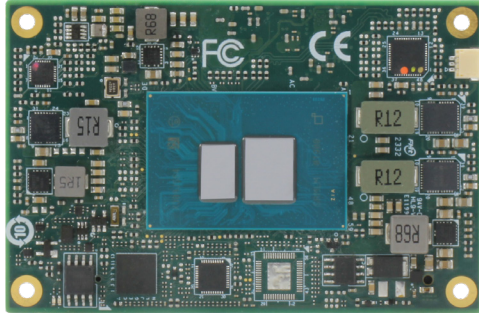


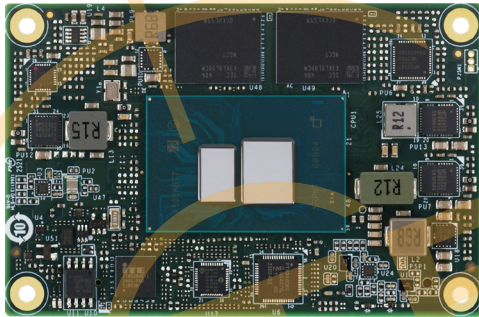
NanoCOM-ADN

COM Express Type 10 with Intel Atom® Processor X Series/Intel® Core™ i3/Processor N-series

NANOCOM-ADN-A10



NANOCOM-ADN-A12



Features

- Onboard LPDDR5, up to 16GB
- Onboard eMMC, up to 64GB
- LVDS x 1, DDI x 1
- USB 2.0 x 8, USB 3.2 Gen 2 x 2
- PCIe [x1] x 4
- Intel® I226-V/IT 2.5GbE x 1
- COM Express Type 10, 3.31" x 2.17" (84mm x 55mm)



Display	
Graphics Controller	Intel® UHD Graphics
Video Output	Dual Display: DDI x 1, up to 3840 x 2160 18/24-bit Single-Channel LVDS x 1, up to 1024 x 768
I/O	
Ethernet	Intel® Ethernet Controller I226-V 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 3.0 [x1] x 4 LPC x 1
GPIO	8-bit
SMBus/I2C	I2C x 1, SMBus x 1
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® 10 / 11 (64-bit) Linux Ubuntu 22.04.4/Kernel 6.5
Weight	0.15 lb. (0.07Kg)

Specifications

System	
Form Factor	COM Express Mini Size, Type 10
CPU	Intel Atom® x7000E Series: Intel Atom® x7425E (4C, 1.50 GHz, 12W) Intel® Processor N-series: Intel® Core™ i3-N305 (8C, up to 3.8 GHz, 15W) Intel® Processor N97 (4C, 2.00 GHz, 12W) Intel® Processor N50 (2C, 1.00 GHz, 6W)
Chipset	Integrated with Intel® SoC
Memory	Onboard LPDDR5x up to 4800MHz, up to 16GB
Onboard Storage	eMMC, up to 64GB
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	A10: +12V and +5VSB for ATX, +12V for AT A12: +9V-15V and +5VSB for ATX, +9-15V for AT
Power Type	AT/ATX, switch by BIOS
Power Consumption (Typical)	Intel® Core™ i3-N305, 2.32A @+12V

Packing List

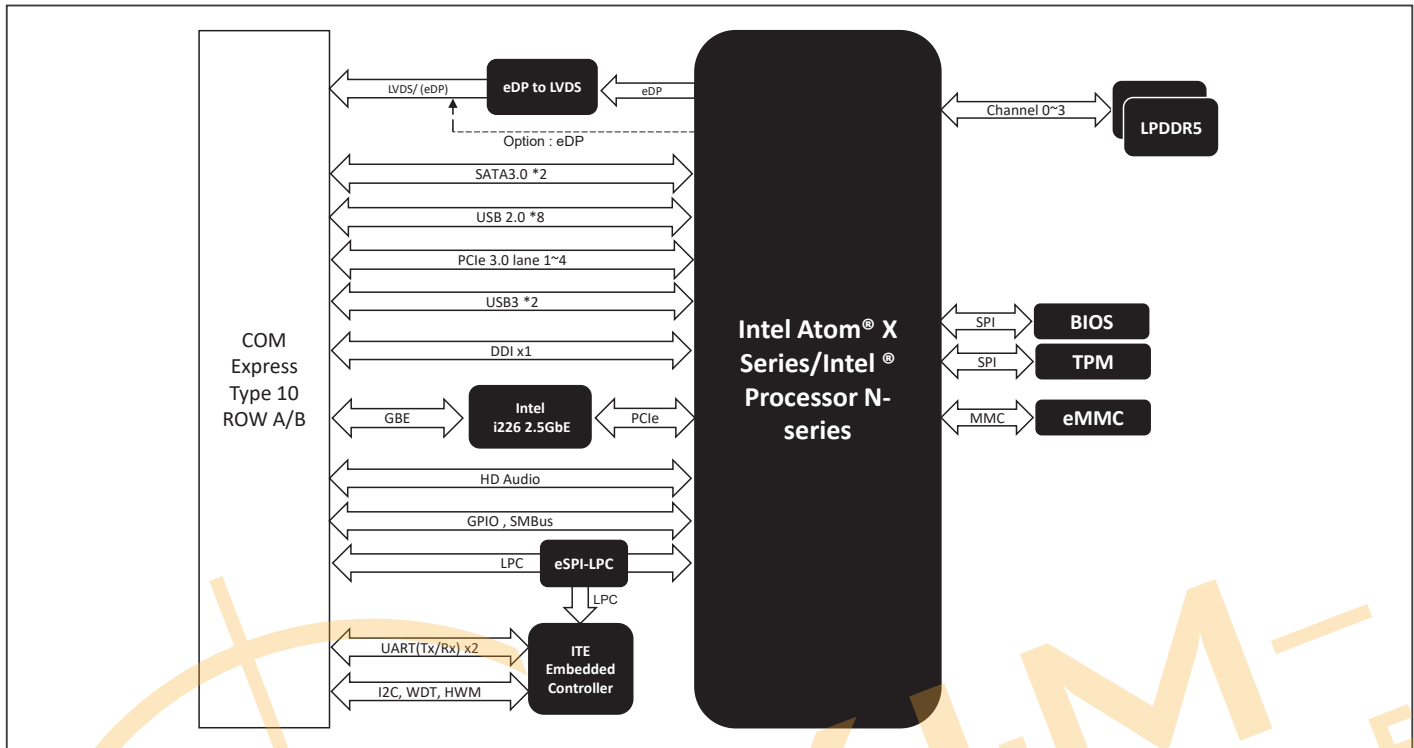
- NANOCOM-ADN

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-ADN-HSP01	Heat Spreader. 84 x 55 x 11 mm. Black
NANOCOM-ADN-FAN01	Cooler. 84 x 55 x 18 mm. 4pin

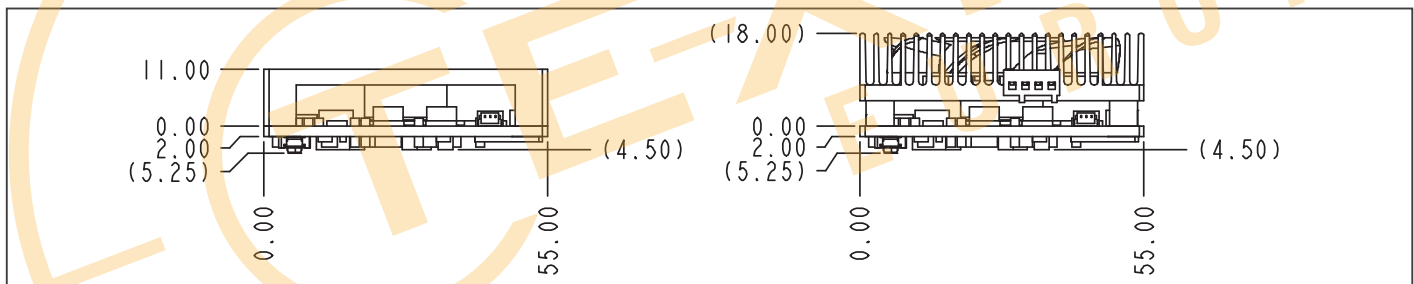


Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
NANOCOM-ADN-A10-0001	Type 10	Intel® Core™ i3-N305	16GB Onboard LPDDR5x	—	LVDS x 1, DDI x 1	SATA III x 2 64GB eMMC	2.5GbE 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	12V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-ADN-A10-0003	Type 10	Intel® Processor N97	8GB Onboard LPDDR5x	—	LVDS x 1, DDI x 1	SATA III x 2 32GB eMMC	2.5GbE 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	12V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-ADN-A10-0004	Type 10	Intel® Processor N50	4GB Onboard LPDDR5x	—	LVDS x 1, DDI x 1	SATA III x 2 32GB eMMC	2.5GbE 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	12V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-ADN-A10-0005	Type 10	Intel Atom® x7425E	8GB Onboard LPDDR5x	—	LVDS x 1, DDI x 1	SATA III x 2 64GB eMMC	2.5GbE 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	12V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-ADN-A12-0001	Type 10	Intel® Core™ i3-N305	16GB Onboard LPDDR5x	-	LVDS x 1, DDI x 1	SATA III x 2 64GB eMMC	2.5GbE 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	9-15V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-ADN-A12-0003	Type 10	Intel® Processor N97	8GB Onboard LPDDR5x	-	LVDS x 1, DDI x 1	SATA III x 2 32GB eMMC	2.5GbE 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	9-15V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-ADN-A12-0005	Type 10	Intel Atom® x7425E	8GB Onboard LPDDR5x	-	LVDS x 1, DDI x 1	SATA III x 2 64GB eMMC	2.5GbE 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	9-15V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C, SMBus

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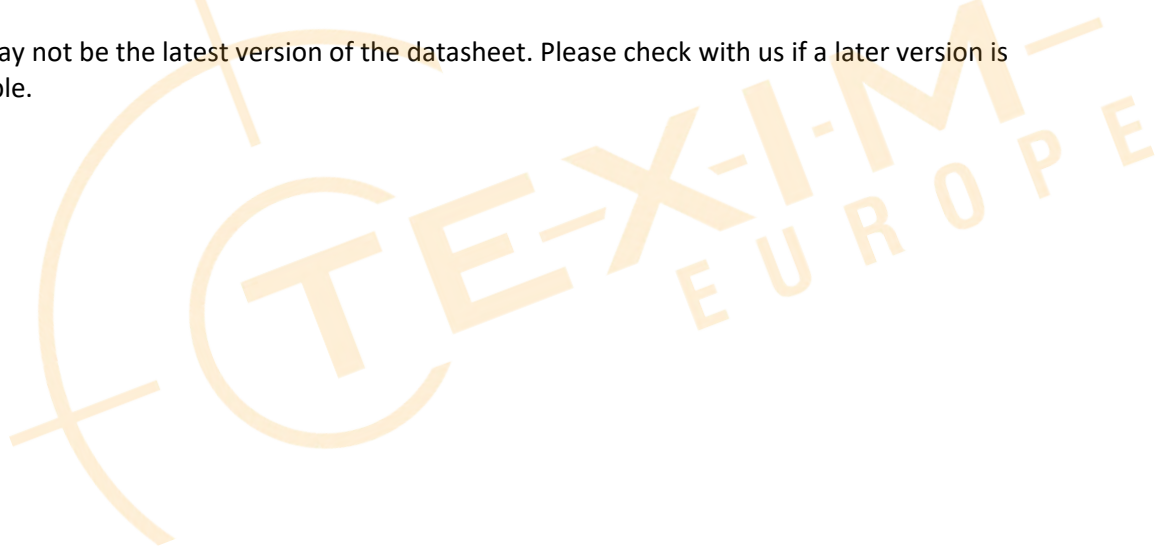
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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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