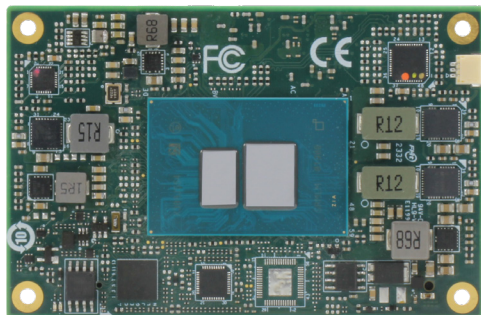


NanoCOM-ADN

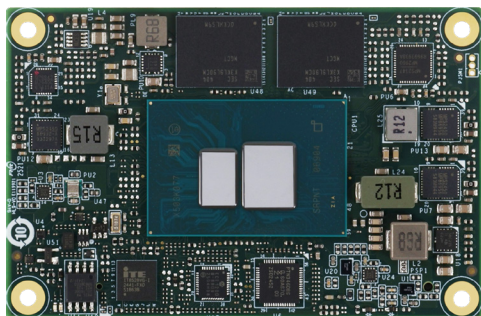


COM Express Type 10 with Intel Atom® Processor X Series/Intel® Core™ i3/Processor N-series

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

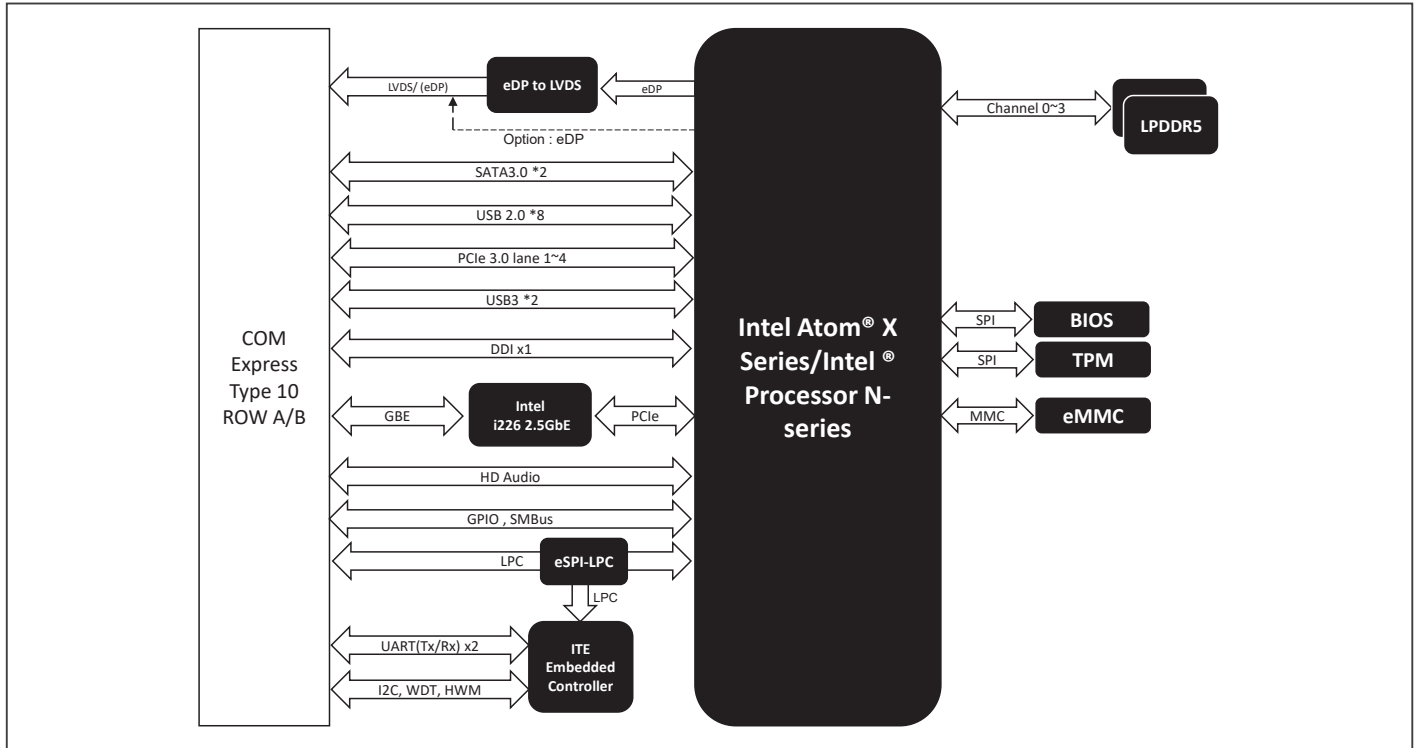
Packing List

- NANOCOM-ADN

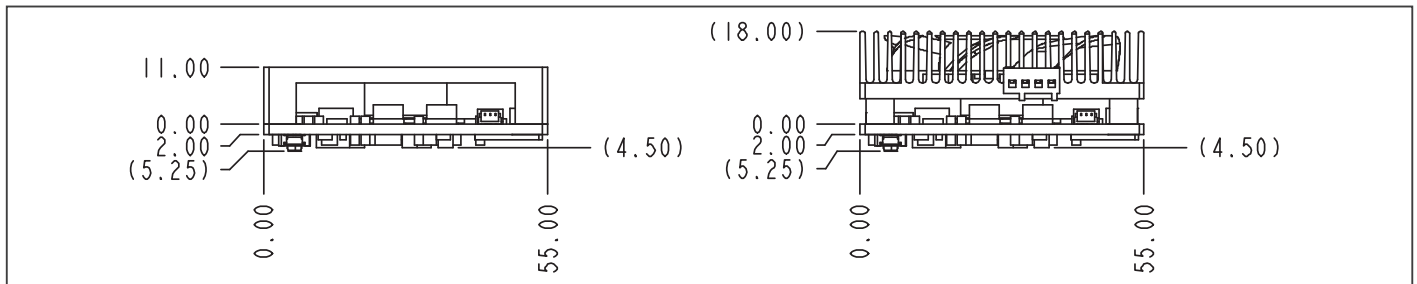
Optional Accessories

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