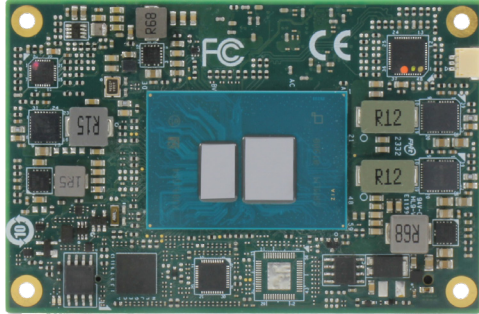


NanoCOM-ASL

COM Express Type 10 with Intel Atom® Processors x7000RE Series



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® Ethernet Controller I226-V/IT 2.5GbE x 1
- COM Express Type 10, 3.31" x 2.17" (84mm x 55mm)



Specifications

System	
Form Factor	COM Express Mini Size, Type 10
CPU	Intel Atom® x7835RE (8C, 1.30 GHz, 12W) Intel Atom® x7433RE (4C, 1.50 GHz, 9W)
Chipset	Integrated with Intel® SoC
Memory	Onboard LPDDR5x 4800MHz, 4 Channel , 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	TPM 2.0
Power	
Power Requirement	+9V-15V and +5VSB for ATX, +9-15V for AT
Power Type	AT/ATX, switch by BIOS
Power Consumption (Typical)	Intel Atom® x7433RE, 1.31A @+12V
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-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 3.0 [x1] x 4 LPC x 1
GPIO	8-bit
SMBus/I2C	I2C x 1, SMBus x 1

Environment	
Operating Temperature	-40°F ~ 185°F (-40°C ~ 85°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)

Packing List

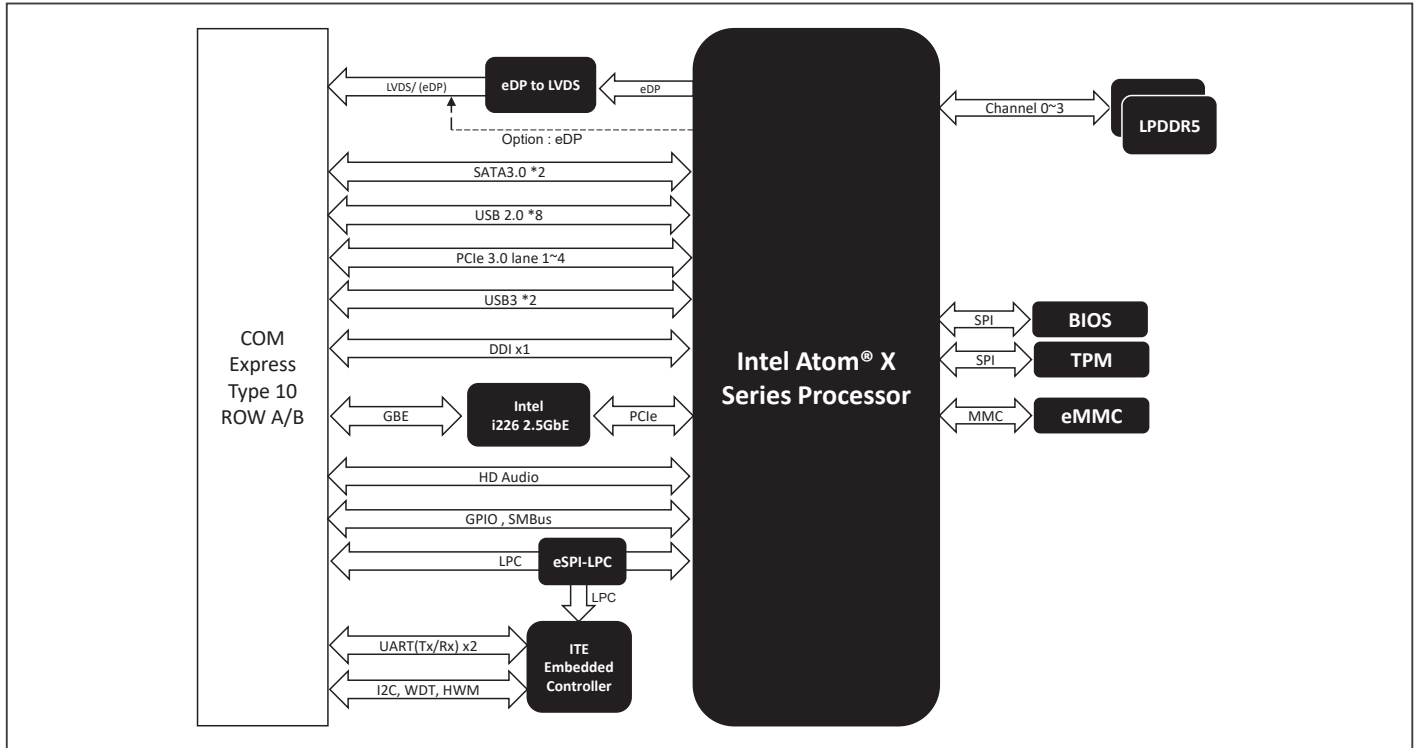
- NanoCOM-ASL

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.

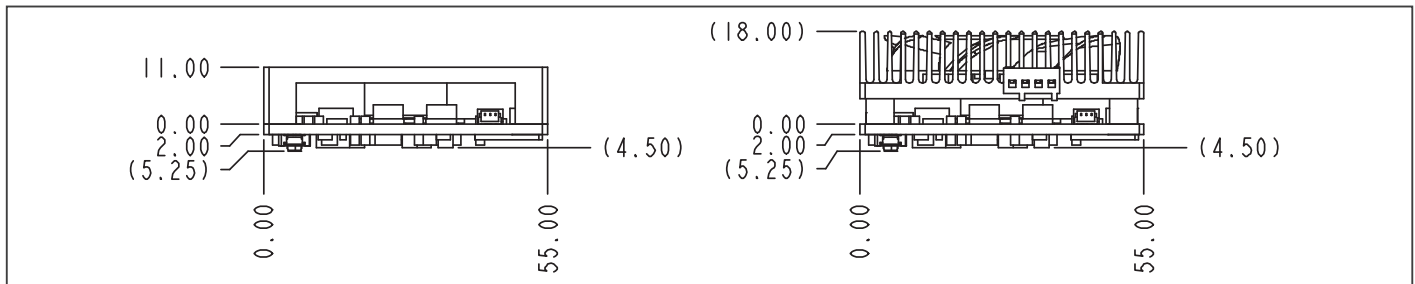


Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
NANOCOM-ASLW2-A12-0001	Type 10	Intel Atom® x7835RE	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	-40°C ~ 85°C	LPC, GPIO 8-bit, I2C, SMBus
NANOCOM-ASLW2-A12-0002	Type 10	Intel Atom® x7433RE	8GB Onboard LPDDR5x	—	EDP 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	-40°C ~ 85°C	LPC, GPIO 8-bit, I2C, SMBus