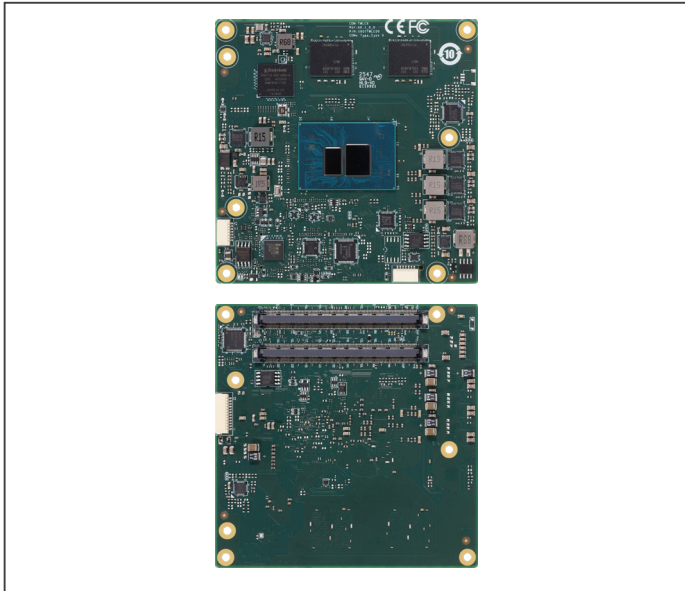


COM-ADNC6 Rev.B

COM Express Type 6 Compact Size with Intel Atom® X Series/N-series/Core™ Processors



Features

- Intel Atom® X Series/N-series/Core™ CPU, max TDP 15W
- Onboard LPDDR5, up to 16GB
- Intel® Ethernet Controller I226 x 1
- SATA 6Gb/s x 1
- USB 2.0 x 8, USB 3.2 Gen 2 x 2
- PCIe [x2] x 1 + PCIe [x2] x 1 + PCIe [x1] x 2, Up to 4 PCIe devices
- COM Express Type 6, Compact size, 95mm x 95mm



Specifications

System	
Form Factor	COM Express Type 6, Compact Size
CPU	Intel Atom® X Series/N-series/Core™ CPU Intel® Core™ i3-N305 (8C, up to 3.8 GHz, 15W) Intel® Processor N97 (4C, up to 3.6 GHz, 12W)
Chipset	Integrated with Intel® SoC
Memory	Onboard LPDDR5x up to 4800MHz, up to 16GB
Onboard Storage	eMMC, up to 128GB
BIOS	AMI BIOS (UEFI)
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	3.74" x 3.74" (95mm x 95mm)
Security	dTPM / fTPM
Power	
Power Requirement	+12V and +5VSB for ATX, +12V for AT
Power Type	AT/ATX, switch by BIOS
Power Consumption (Typical)	Intel® Core™ i3-N305, 1.8A @+12V
Display	
Graphics Controller	Intel® UHD Graphics
Video Output	3 Displays: 18/24-bit Single/Dual-Channel LVDS/eDP x 1, up to 1920 x 1080 / 3840 x 2160 DP x 2, 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 1, by BOM
Expansion	PCIe [x2] x 1 + PCIe [x2] x 1 + PCIe [x1] x 2 lane#3 colay SATA, by BOM LPC, WDT, HWM
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 24.04/Kernel 6.11
Weight	0.26 lb (0.12 kg)

Packing List

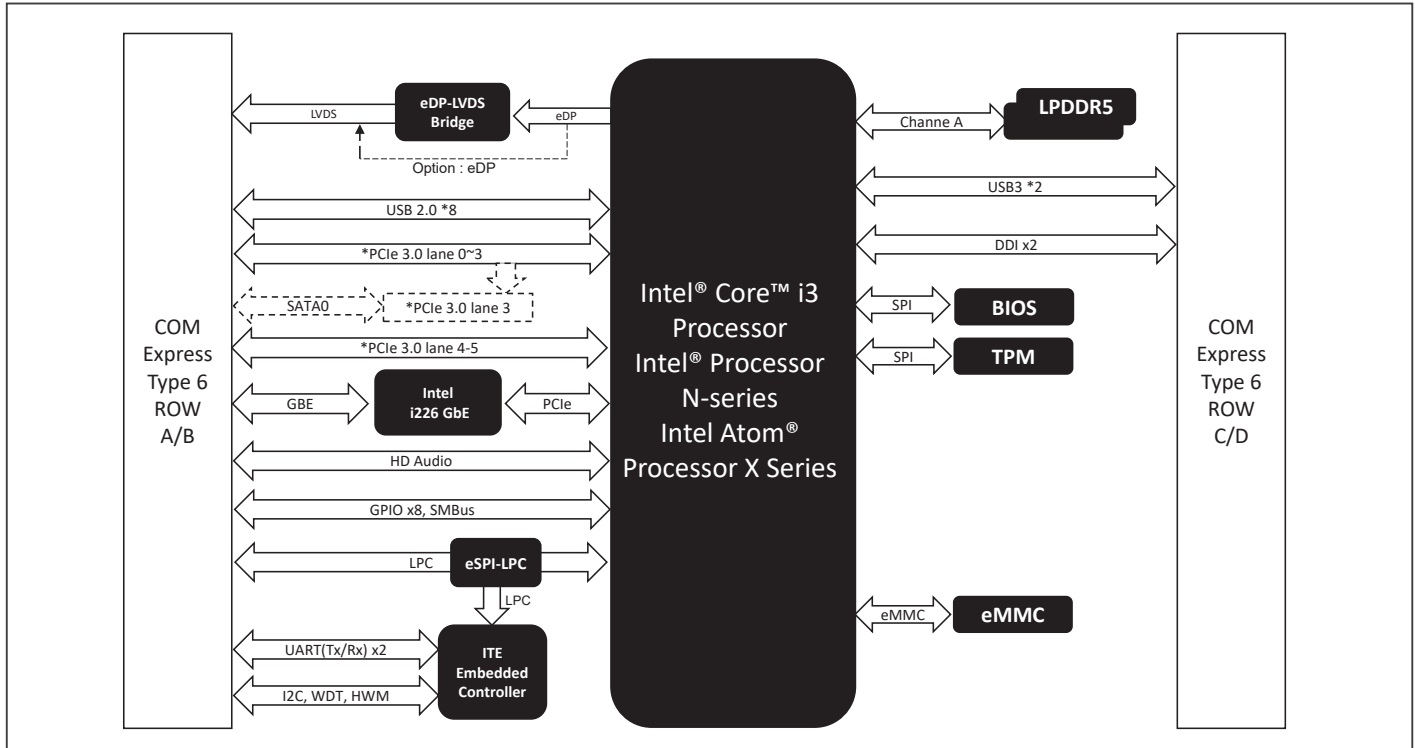
- COM-ADNC6 x 1

Optional Accessories

Part Number	Description
COM-ADNC6-FAN01	Cooler.95*95*29mm.4pin
COM-TWLC6-HSP01	Heat Spreader.95*95*11mm
ECB-920A-A11-0001	COMe Type 6/10.Carrier Board.ATX.2.5GbE.8USB.2COM.4SATA.PCie.AT/ATX. Rev.A1.1

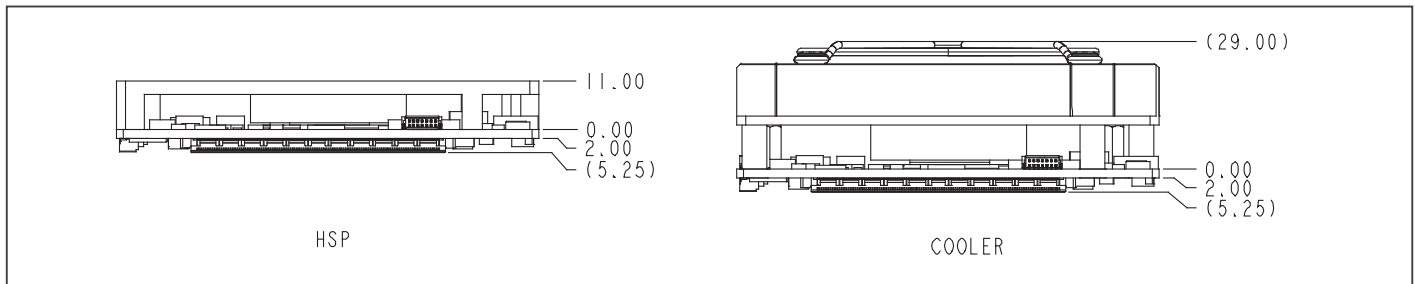


Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
COM-ADNC6-B10-0001	Type 6	Intel® Core™ i3-N305	16GB Onboard LPDDR5x	—	LVDS x 1, DDI x 2	64GB eMMC	Intel® Ethernet Controller I226-IT x 1	USB 2.0 x 8, USB 3.2 Gen 2 x 2	2-Wire UART x 2 (Tx/Rx)	PCIe [x2] x 1 + PCIe [x2] x 1 + PCIe [x1] x 2	12V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C, SMBus
COM-ADNC6-B10-0002	Type 6	Intel® Processor N97	8GB Onboard LPDDR5x	—	LVDS x 1, DDI x 2	64GB eMMC	Intel® Ethernet Controller I226-IT x 1	USB 2.0 x 8, USB 3.2 Gen 2 x 2	2-Wire UART x 2 (Tx/Rx)	PCIe [x2] x 1 + PCIe [x2] x 1 + PCIe [x1] x 2	12V	-20°C ~ 70°C	LPC, GPIO 8-bit, I2C, SMBus