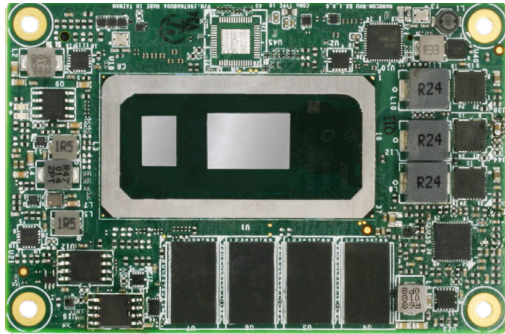


NanoCOM-WHU Rev.B

COM Express Type 10 with 8th Generation Intel® Core™ U Series Processor



Features

- 8th Generation Intel® Core™/Celeron™ U Series Processor (formerly Whiskey Lake)
- Onboard Memory DDR4 2400, up to 8GB
- Intel i219LM Gigabit Ethernet x 1
- 18/24-bit Single-Channel LVDS LCDs/eDP x 1, DDI x 1
- High Definition Audio Interface
- SATA3 x 2
- USB2.0 x 8, USB 3.2 Gen 2 x 2
- PCIe [x1] x 4
- COM Express Mini Size, Type 10, COM.0 R3.0



Specifications

System	
Form Factor	COM Express Mini size, Type 10
CPU	8th Generation Intel® Core™/Celeron™ U Series Processor
CPU Frequency	Up to i7-8665UE, 1.70GHz
Chipset	8th Generation Intel® Core™/Celeron™ U Series SoC
Memory Type	Onboard DDR4
Max. Memory Capacity	8GB
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12 V and +5 VSB for ATX, +12V for AT
Power Supply Type	AT/ATX
Power Consumption (Typical)	2.10A@12V, full load, i7-8665UE
Dimension (L x W)	3.31" x 2.17" (84 mm x 55 mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) -40°F ~ 185°F (-40°C ~ 85°C) Option
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Certification	CE/FCC Class A
Display	
Graphic Controller	Intel® UHD Graphics 620 / 610
Video Output	Dual Display : LVDS LCD/eDP, DDI x 1 Single Channel LVDS (18/24 bit)
I/O	
Ethernet	Intel® i219 GbE x 1
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 8, USB 3.2 Gen2 x 2
Serial Port	2-Wire UART (Tx/Rx) x 2
HDD Interface	SATA 3 x 2
Expansion Slot	PCIe[x1] x 4 LPC SMBus I2C
GPIO	8-bit
Onboard Storage	—
TPM	1TPM

Packing List

- NanoCOM-WHU Rev.B x 1

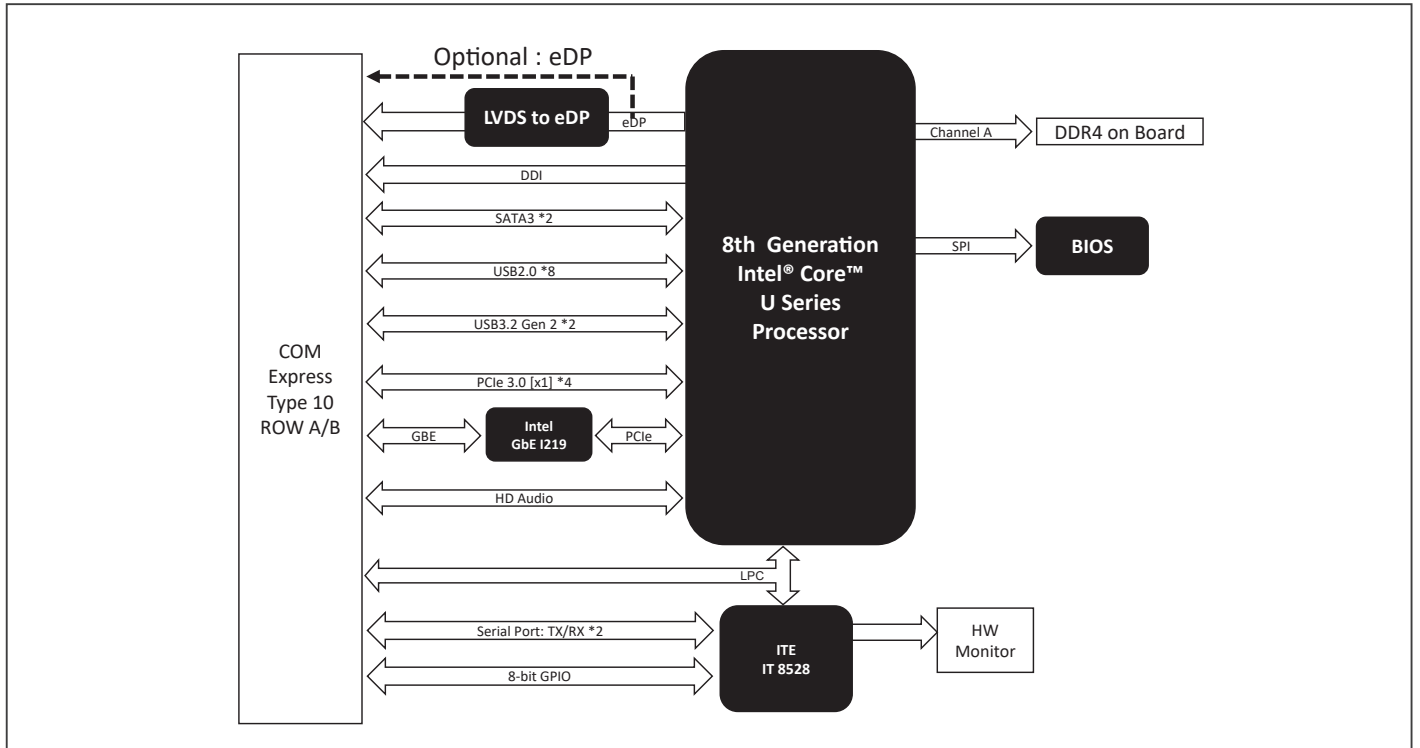
Optional Accessories

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

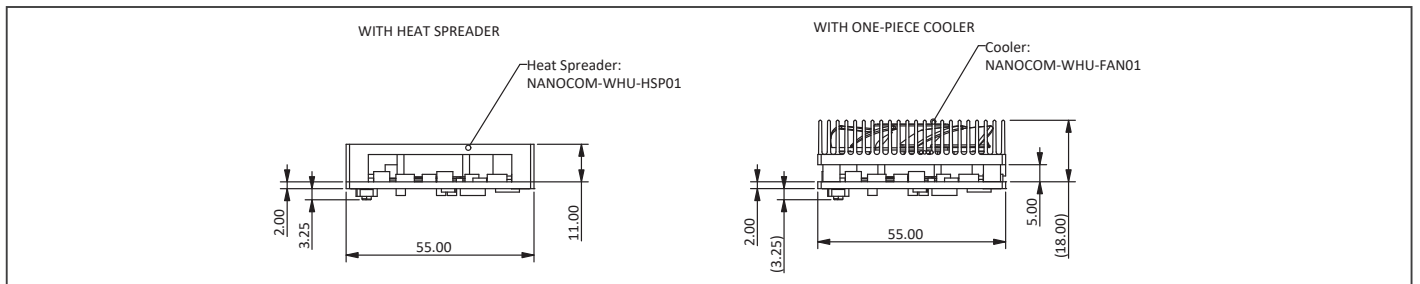
CPU Support Chart

CPU	Core/Thread	Base Frequency/ Turbo	TDP	Graphic
i7-8655UE	4C/8T	1.70GHz / 4.40GHz	15W	Intel® UHD Graphics 620
i5-8365UE	4C/8T	1.60GHz / 4.10GHz	15W	Intel® UHD Graphics 620
i3-8145UE	2C/4T	2.20GHz / 3.90GHz	15W	Intel® UHD Graphics 620
Celeron 4305UE	2C/2T	2.00GHz	15W	Intel® UHD Graphics 610

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

PART NUMBER	COM EXPRESS TYPE	CPU	MEMORY	DISPLAY	LVDS	STORAGE	LAN	USB	UART	EXPANSION	POWER	TEMPERATURE	OTHERS
NANOCOM-WHU-B10-0001	Type 10 (COM.0 Rev. 3.0)	i7-8665UE	Onboard DDR4 8GB	LVDS, DDI x 1	18/24bits 1CH LVDS	SATA3 x 2	GbE x 1	USB 3.2 Gen 2 x 2 USB 2.0 x 8	2 (Tx/Rx)	PCIe [x1] x 4	12V	0°C - 60°C	LPC, SMBus, I2C