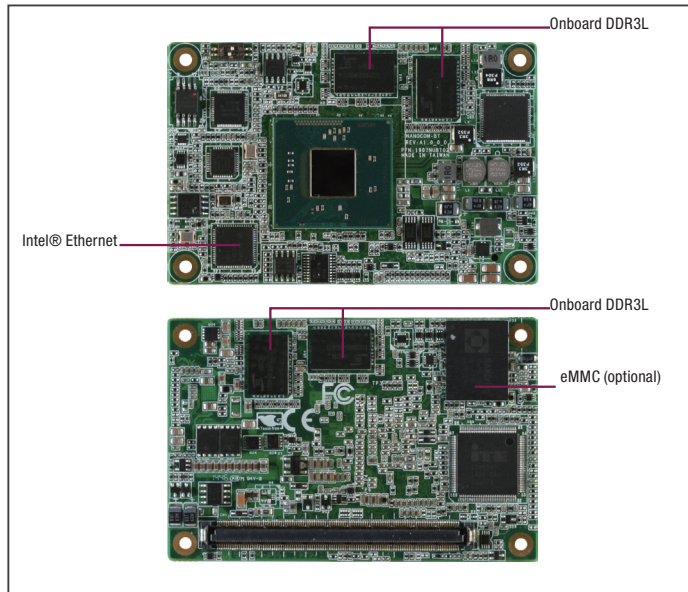


# NanoCOM-BT

COM Express Type 10 CPU Module with Onboard Intel® Atom™ Processor SoC



## Features

- Intel® Atom™ E3800/ Celeron® N2000 Series Processor SoC
- Onboard DDR3L 2 GB Memory (Optional to 4 GB)
- Gigabit Ethernet x 1
- 18/24-bit Single Channel LVDS LCDs, DDI x 1
- High Definition Audio Interface
- SATA x 2, eMMC (Optional)
- USB 2.0 x 6 + USB 2.0/USB 3.2 Gen 1 x 1, GPIO 8-bit, PCI-Express [x1] x 3
- COM Express Pin-out Type 10
- Mini Size, 84mm x 55mm, COM.0 Rev. 2.1

## Specifications

System	
Form Factor	COM Express Mini size, Type 10
CPU	Intel® Atom™/ Celeron® Processor SoC (M/I)
CPU Frequency	Up to E3845, 1.91 GHz
Chipset	Intel® Atom™/ Celeron® Processor SoC
Memory Type	Non-ECC DDR3L-1333
Max. Memory Capacity	2 GB DDR3L Onboard (up to 4 GB)
BIOS	AMI BIOS, Legacy free
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Standard : +12V, AT/ATX, Optional: +5V, AT/ATX
Power Supply Type	AT/ATX
Power Consumption (Typical)	0.7A@12V, full load, E3845
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) by E3800, 2GB SKU
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	90,000
Certification	CE/FCC Class A
Display	
Display Controller	Intel® HD Graphic
Video Output	LVDS LCD/eDP, DDI x 1
LVDS Interface	Supports 18-bit and 24-bit Single channel
I/O	
Ethernet	Intel® I210IT
Audio	High Definition Audio Interface
USB port	USB 2.0 x 7, USB 3.2 Gen 1 x 1
Serial Port	Tx/Rx x 2
HDD Interface	SATA 2 x 2
Onboard Storage	Optional for 8GB/16GB eMMC
Expansion Slot	PCIe [x1] x 3 (up to 3 devices) LPC SMBus I2C
GPIO	GPIO 8-bit
TPM	—



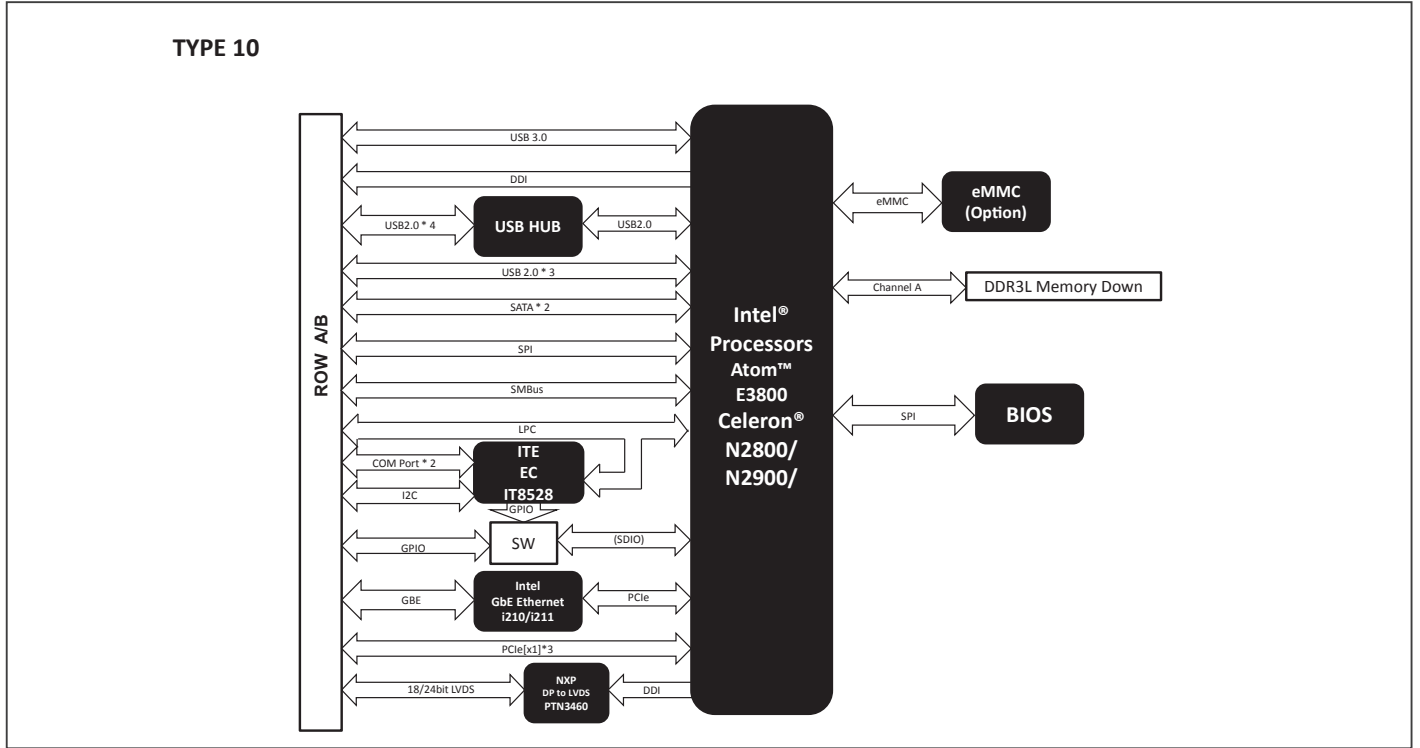
## Packing List

- M2.5 Screw x 4
- NanoCOM-BT

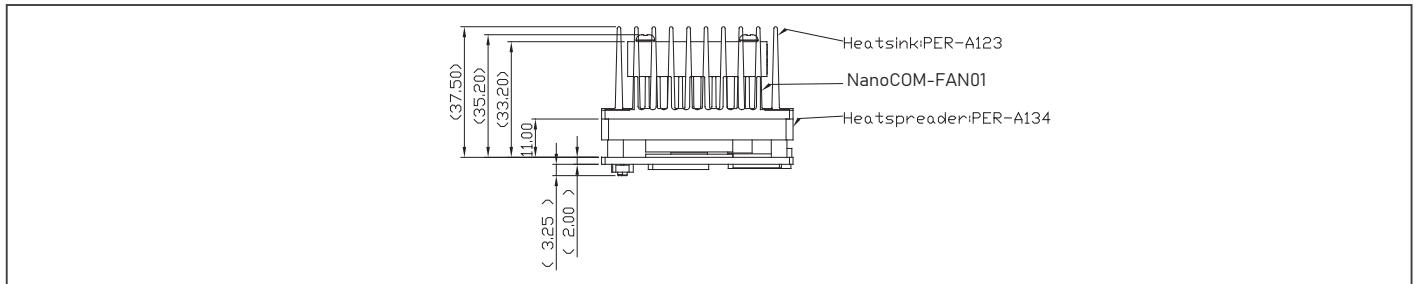
## Optional Accessories

- **ECB-920A-A10-0001**  
COM Type 1/6/10 Carrier Board, ATX, GbE, 8 USB, 2 COM, 4 SATA, PCIe, AT/ATX, Legacy Free, Rev. A1.0
- **PER-A134**  
Heat Spreader, for NanoCOM-BT, Onboard CPU
- **NanoCOM-FAN01**  
CPU Cooler, 84 x 55x 22.2 mm, used with HSP
- **PER-A123**  
Passive Heatsink, for NanoCOM size, to be used with Heat Spreader

### Block Diagram Unit: mm



### Dimension Unit: mm



### Ordering Information

Part Number	COM Express Type	CPU	Memory	Display	LVDS	Storage	LAN	USB	UART	Expansion Slot	Power	Power Temp	Others
NanoCOM-BT-A10-0001	10 (COM.0 Rev. 2.1)	N2930, 4C/1.83 GHz	2GB DDR3L	LVDS/eDP, DDI	18/24bit,1CH	SATA x 2	GbE x 1	USB 3.2 Gen 1 x 1, USB 2.0 x 7	2 (Tx/Rx)	PCIe [x1] x 3	+12V (ATX)	0°C ~ 60°C	LPC, GPIO 8Bit, HDA, I2C, SMBus
NanoCOM-BT-A10-0002	10 (COM.0 Rev. 2.1)	N2807, 2C/1.58 GHz	2GB DDR3L	LVDS/eDP, DDI	18/24bit,1CH	SATA x 2	GbE x 1	USB 3.2 Gen 1 x 1, USB 2.0 x 7	2 (Tx/Rx)	PCIe [x1] x 3	+12V (ATX)	0°C ~ 60°C	LPC, GPIO 8Bit, HDA, I2C, SMBus
NanoCOM-BT-A10-0003	10 (COM.0 Rev. 2.1)	E3845, 4C/1.91 GHz	2GB DDR3L	LVDS/eDP, DDI	18/24bit,1CH	SATA x 2 16GB eMMC	GbE x 1	USB 3.2 Gen 1 x 1, USB 2.0 x 7	2 (Tx/Rx)	PCIe [x1] x 3	+12V (ATX)	0°C ~ 60°C	LPC, GPIO 8Bit, HDA, I2C, SMBus
NanoCOM-BTW2-A10-0003	10 (COM.0 Rev. 2.1)	E3845, 4C/1.91 GHz	2GB DDR3L	LVDS/eDP, DDI	18/24bit,1CH	SATA x 2 16GB eMMC	GbE x 1	USB 3.2 Gen 1 x 1, USB 2.0 x 7	2 (Tx/Rx)	PCIe [x1] x 3	+12V (ATX)	-40°C ~ 85°C	LPC, GPIO 8Bit, HDA, I2C, SMBus
NanoCOM-BT-A10-0006	10 (COM.0 Rev. 2.1)	E3825, 2C/1.33 GHz	2GB DDR3L	LVDS/eDP, DDI	18/24bit,1CH	SATA x 2 8GB eMMC	GbE x 1	USB 3.2 Gen 1 x 1, USB 2.0 x 7	2 (Tx/Rx)	PCIe [x1] x 3	+12V (ATX)	0°C ~ 60°C	LPC, GPIO 8Bit, HDA, I2C, SMBus