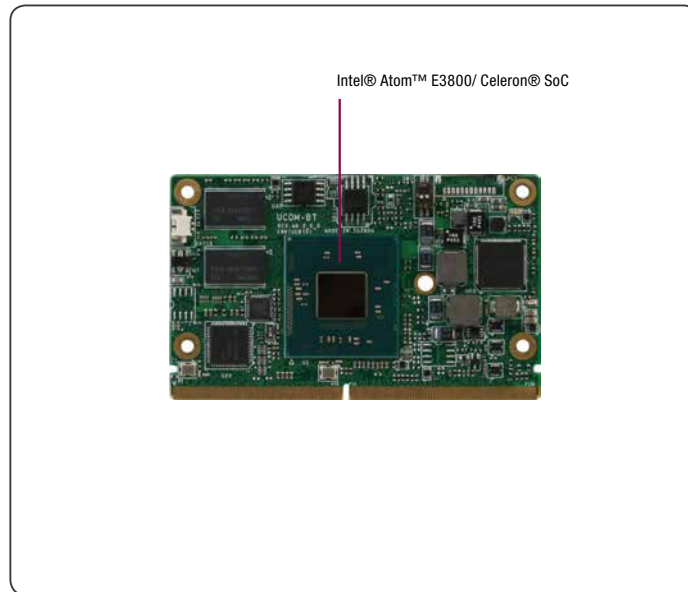


## SMARC CPU Module with Onboard Intel® Atom™/Celeron® Processor SoC



### Features

- Intel® Atom™ E3800 and N2807 Product Family Processor SoC
- Onboard DDR3L up to 4 GB Memory
- Gigabit Ethernet x 1
- 18/24-bit Single Channel LVDS, HDMI
- High Definition Audio Interface
- SATA x 2
- USB2.0 x 3, GPIO up to 12-bit, USB3.0 x 1
- PCI-Express [x1] x 3
- SMARC Spec v1.1, 82mm x 50mm

### Specifications

System	
Form Factor	SMARC Version 1.1
CPU	Intel® Atom™ SOC Processor
CPU Frequency	up to 1.91 GHz
Chipset	Intel® Atom™ E3800 series
Memory Type	Onboard DDR3L
Max. Memory Capacity	2 GB (optional to 4 GB)
BIOS	AMI BIOS
Wake on LAN	No
Watchdog Timer	255 Levels
Power Requirement	Normal: 3.3V - 5V
Power Supply Type	AT/ ATX
Power Consumption (Typical)	0.7A@12V, full load, E3845
Dimension	3.23" x 1.96" (82 x 50 mm)
Operating Temperature	32 °F ~ 140 °F (0 °C ~ 60 °C) -40 °F ~ 185 °F (-40 °C ~ 80 °C) WITAS 2
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
Display	
VGA/LCD Controller	Intel® Atom™ SOC
Video Output	24-bit LVDS LCD, HDMI
Backlight Inverter Supply	—
I/O	
Ethernet	Intel® I211AT, 10/1000/1000Base-TX
Audio	HD Audio x 1
USB Port	USB3.0 x 1, USB2.0 x 3
Serial Port	UART x 2 (1 for TX/RX/RTS#/ CTS#; 1 for TX/RX)
Parallel Port	—
HDD Interface	SATA x 2
FDD Interface	—
SSD	Optional for onboard eMMC up to 64GB
Expansion Slot	PCI Express [x1] x 3 I2C, SMBus x 1, SDIO SPI x 2, SPI 0 for boot only
DIO	GPIO, 11-bit
TPM	—
Touch	—



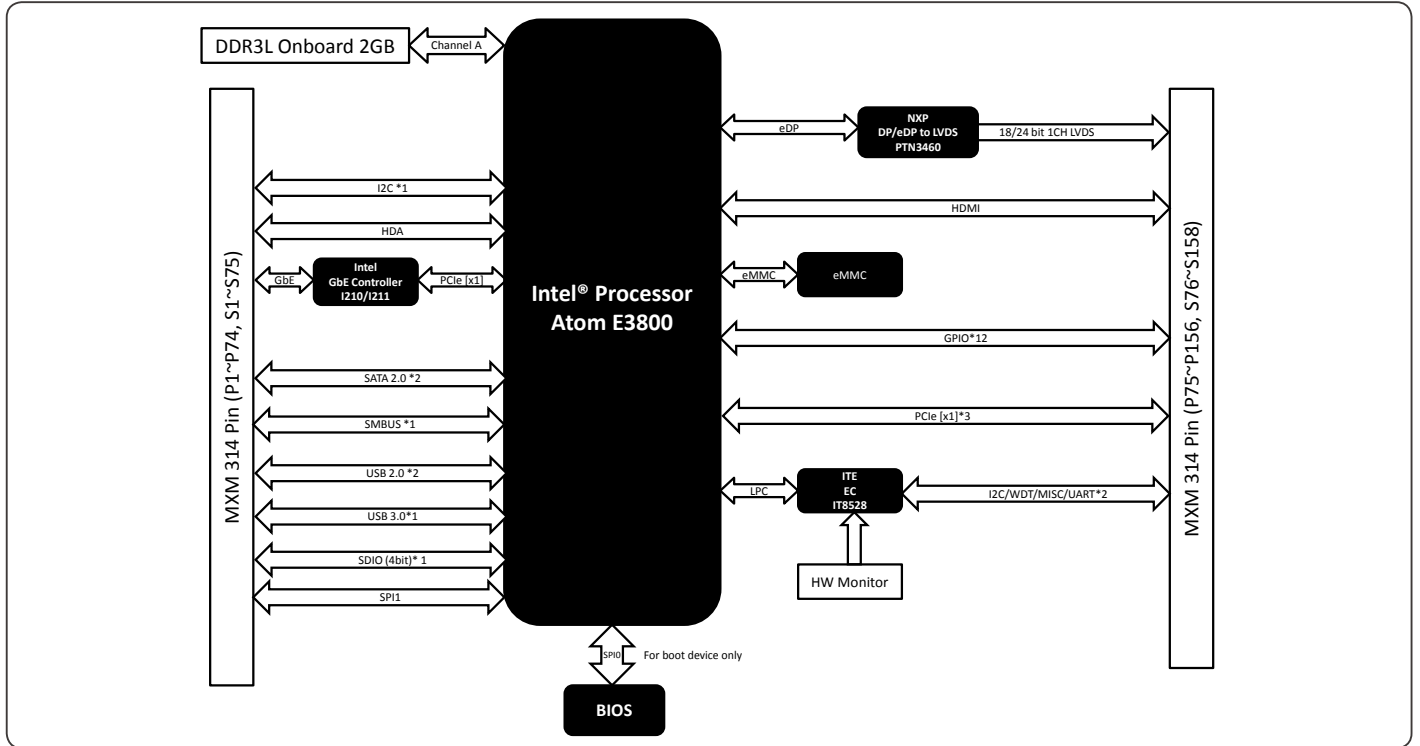
### Packing List

- M2.5 Screw x 4
- Product CD
- μCOM-BT

### Optional Accessories

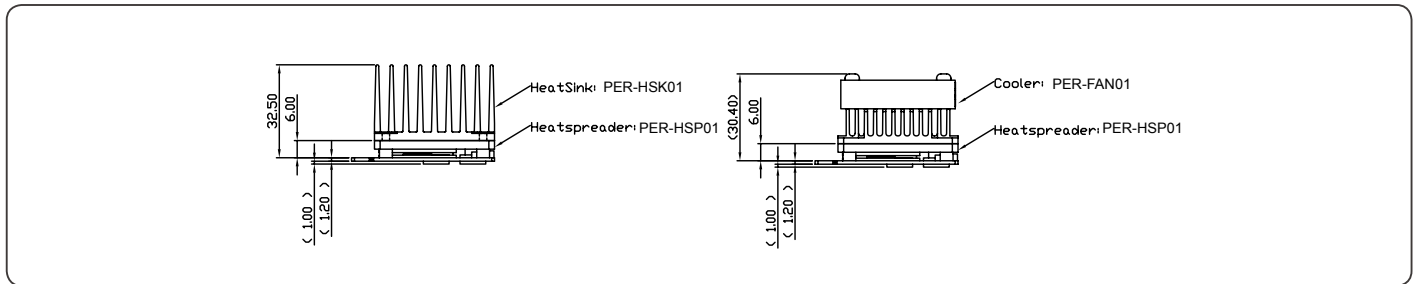
- **ECB-960T-A10-0001**  
SMARC Carrier Board for x86
- **μCOM-BT-HSP01**  
Heat Spreader for μCOM-BT
- **μCOM-HSK01**  
Heatsink for μCOM Series, to be used with Heatspreader
- **μCOM-FAN01**  
Cooler for μCOM Module, to be used with Heatspreader

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

Part Number	Form Factor	CPU	Memory	Display	LVDS	Storage	LAN	USB	UART	Expansion	Others	Power	Temperature
UCOM-BT-A20-0004	SMARC1.1	N2807, 2c/1.58GHz	Onboard 2GB DDR3L	DDI x 1	18/24b 1Ch	SATA x 2	GbE x1	USB2.0 x3 USB3.0 x1	2-wire x1 4-wire x1	PCIe[x1] x3	GPIO x11, SMBus, SDIO, I2C,	3.3V/5V	0°C~60°C
UCOM-BT-A20-0005	SMARC1.1	E3825, 2c/1.33GHz	Onboard 2GB DDR3L	DDI x 1	18/24b 1Ch	SATA x 2, 8GB eMMC	GbE x1	USB2.0 x3 USB3.0 x1	2-wire x1 4-wire x1	PCIe[x1] x3	GPIO x11, SMBus, SDIO, I2C,	3.3V/5V	0°C~60°C
UCOM-BT-A10-0006	SMARC1.1	E3845, 4c/1.91GHz	onboard 4GB DDR3L	DDIx1	18/24b 1Ch	SATA x 2, 16GB eMMC	GbE x1	USB2.0 x3 USB3.0 x1	2-wire x1 4-wire x1	PCIe[x1] x3	GPIO x11, SMBus, SDIO, I2C,	3.3V/5V	0°C~60°C