

μCOM-BT

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



Features

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



Specifications

System	
Form Factor	SMARC
Processor	Intel® Atom™ Processor SoC N2807: Dual Core 1.58 GHz/4.3W E3825: Dual Core 1.33 GHz/6W E3845: Quad Core 1.91 GHz/10W
System Memory	Onboard DDR3L 2 GB
Chipset	Intel® Atom™ Processor SoC
I/O Chipset	Intel® Atom™ Processor SoC
Ethernet	Intel® I211AT/I210IA for 10/1000/1000Base-TX
BIOS	AMI BIOS, Legacy free BIOS
Wake On LAN	Yes
Watchdog Timer	ITE IT8528
H/W Status Monitoring	Supports CPU Temperature Monitoring
Expansion Interface	PCI Express [x1] x 3, SPI x 1, I2C, I2S
Power Requirement	Standard: +5V, AT/ATX
Power Consumption (Typical)	Intel® Atom™ E3845 1.91 GHz, DDR3 2 GB, full load 0.7A@12V, 8.4W
Board Size	3.31" x 2.17" (82mm x 50mm)
Gross Weight	0.44 lb (0.2 kg)
Operation Temperature	32 °F ~ 140 °F (0 °C ~ 60 °C) -40 °F ~ 185 °F (-40 °C ~ 85 °C) optional
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 85 °C)
Operation Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—
Display	
	Supports HDMI/LVDS Simultaneous/Dual view display
Chipset	HDMI/LVDS
Memory	—
Resolution	LCD: up to 1920 x 1080 LVDS HDMI: up to 1920 x 1080
LCD Interface	18-bit single channel LVDS
I/O	
Storage	SATA x 2, eMMC (by SKU)
Serial Port	UART x 2
Parallel Port	—
USB	USB2.0 x 2, USB3.0 x 1
PS/2 Port	—
IrDA	—
Audio	High definition audio
GPIO	12-bit GPIO (one share with HDA)

Packing List

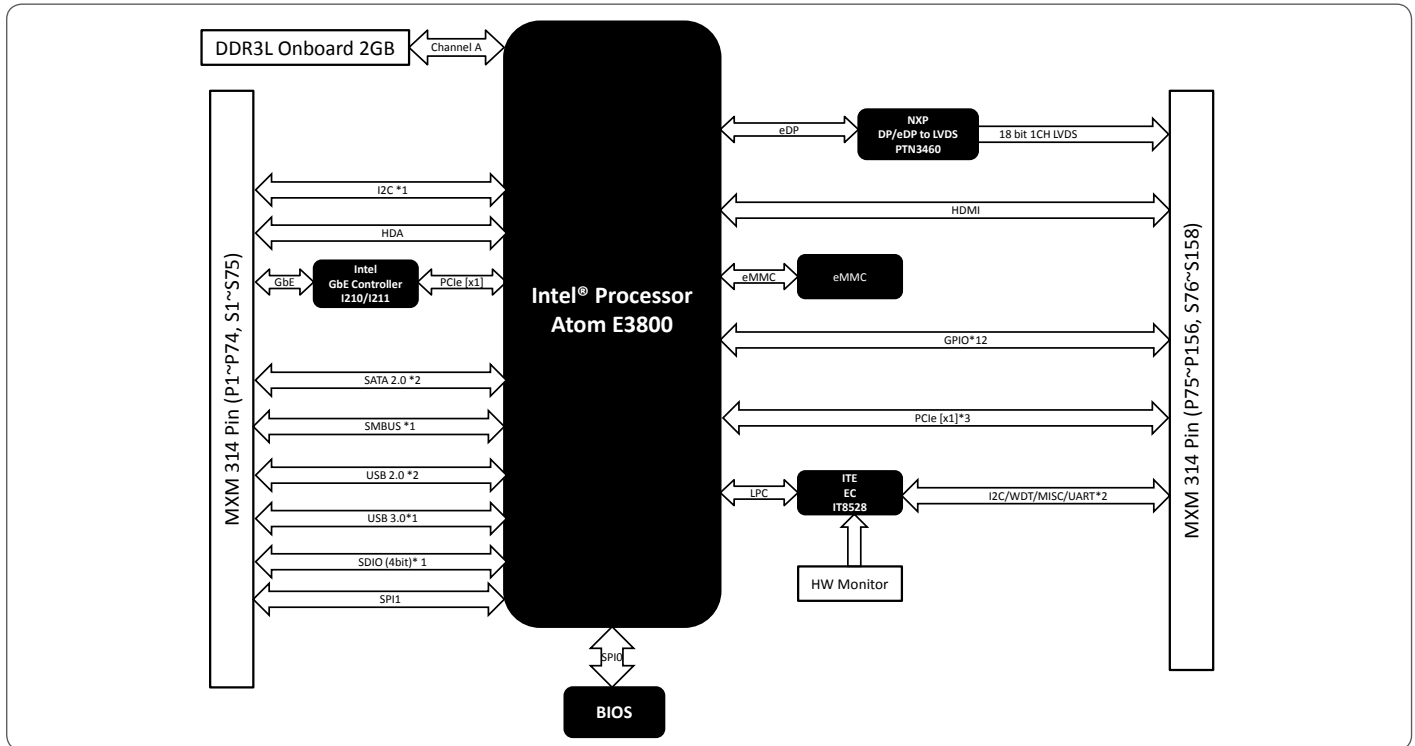
- M2.5 Screw x 4
- Product CD
- μCOM-BT

Optional Accessories

- **ECB-960T-A10-0001**
SMARC Carrier Board for x86
- **PER-A143**
Heat Spreader for μCOM-BT
- **PER-A144**
Heatsink for μCOM series
- **PER-A145**
Cooler for μCOM series

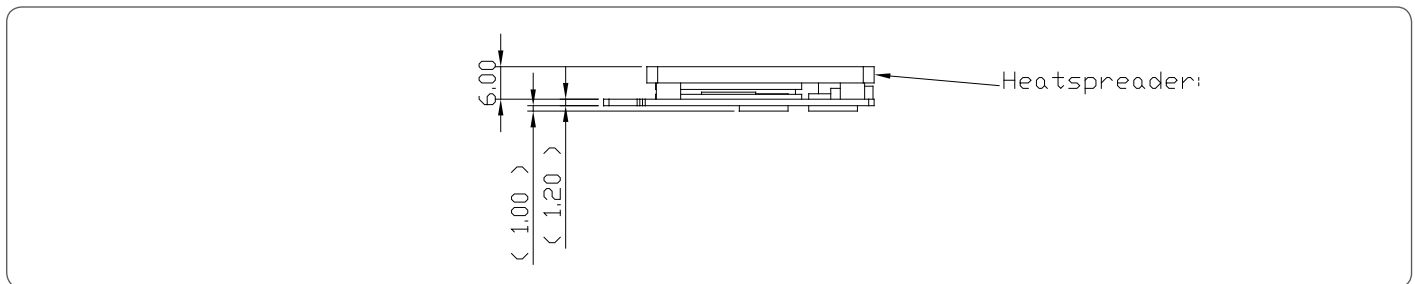
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Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	Form Factor	CPU	Memory	Display	LVDS	Storage	LAN	USB	UART	Expansion	Power	Power Temp	Others
UCOM-BT-A10-0001	SMARC	N2807	Onboard 2GB DDR3L	HDMI x 1	18/24b 1CH	SATA x 2	GbE x1	USB2.0 x 2 USB3.0 x 1	2-wire x 1 4-wire x 1	PCIe(x1) x 3, GPIO x 11, SMBus, SDIO, I2C,	5V	0°C~60°C	—
UCOM-BT-A10-0002	SMARC	E3825	Onboard 2GB DDR3L	HDMI x 1	18/24b 1CH	SATA x 2, 8GB eMMC	GbE x1	USB2.0 x 2 USB3.0 x 1	2-wire x 1 4-wire x 1	PCIe(x1) x 3, GPIO x 11, SMBus, SDIO, I2C,	5V	0°C~60°C	—
UCOM-BT-A10-0003	SMARC	E3845	Onboard 2GB DDR3L	HDMI x 1	18/24b 1CH	SATA x 2, 16GB eMMC	GbE x1	USB2.0 x 2 USB3.0 x 1	2-wire x 1 4-wire x 1	PCIe(x1) x 3, GPIO x 11, SMBus, SDIO, I2C,	5V	0°C~60°C	—