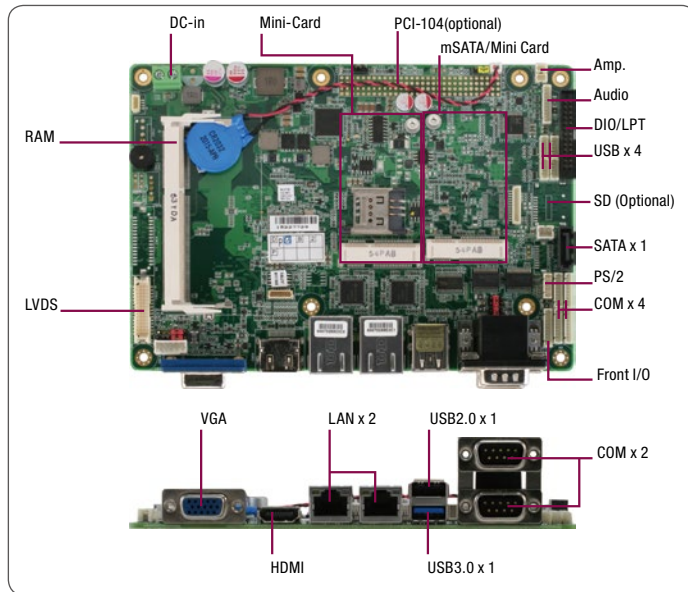


# EPIC-BT07

EPIC Board with Intel® Atom™/ Celeron® Processor SoC



## Features

- Onboard Intel® Atom™ E3845/ Celeron® J1900, N2807 Processor SoC
- DDR3L 1333Mhz SoDIMM x 1, Up to 8GB
- LVDS 24-bit Dual Channel
- Dual Display Configuration: VGA+ LVDS, VGA + HDMI or HDMI + LVDS
- SATA 3.0Gb/s x 1, mSATA/ MiniCard x 1, SD Slot x 1 (Optional for i-SKU)
- USB 3.0 x 1, USB2.0 x 5, RS-232 x 4, RS-232/422/485 x 2 (COM2, COM3)
- MiniCard x 1, SIM x 1, PCI-104 (Optional)
- 16-bit Digital IO/LPT, SMBus x 1, I2C (Optional)
- Audio 2Ch, 2W Audio Amp., TPM (Optional), Touch Controller (Optional)
- 9-24VDC Wide Range or 12VDC Power Input
- SoC Processor on Solder Side Design

## Specifications

System	
Form Factor	EPIC
Processor	Onboard Intel® Atom™ E3845/ Celeron® J1900/N2807 Processor SoC Up to 2.0 GHz
System Memory	204-pin SODIMM DDR3L 1333 MHz up to 8 GB
Chipset	Intel® Atom™ E3845/ Celeron® J1900/N2807 Processor SoC
I/O Chipset	Fintek 81866D
Ethernet	Intel® i211 Gigabit Ethernet, RJ-45 x 2
BIOS	AMI/SPI
Wake On LAN	Yes
Watchdog Timer	1-255 steps by software program
H/W Status Monitoring	Monitoring system temperature, voltage status
Expansion Interface	MiniCard x 1, SIM x 1 PCI-104 x 1 (optional) 16bit DIO co-lay LPT SMBus x 1, I2C x 1 (optional), TPM(optional), Touch Controller 4/5/8 (optional) PS/2 x 1
Battery	Lithium battery
Power Requirement	+12V or 9-24V AT/ATX(default)
Power Consumption (Typical)	Intel® Celeron® J1900 (2.0GHz), 8GB DDR3L 1600 RAM 0.99A@12VDC
System Cooling	Heat-Spreader, heat-sink optional
Board Size	4.5" x 6.5" (115mm x 165mm)
Gross Weight	1.2 lb (0.5 Kg)
Operation Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Operation Humidity	0% ~ 90% relative humidity, non-condensing
MTBF	110,000
Display	
Supports dual simultaneous display	
Chipset	Intel® Atom™ E3845/ Celeron® J1900/N2907 Processor SoC
Resolutions	CRT up to 2048 x 1152 @60 Hz LCD up to 1920 x 1200 @60 Hz HDMI up to 1920 x1080
LCD Interface	18/24-bit Dual-Channel LVDS
I/O	
Storage	SATA 3.0 Gb/s x 1, mSATA/ Mini-Card x 1, SD x 1 (optional for I-Sku)
Serial Port	COM1, 4, 5, 6 : RS-232 x 4 COM2, 3 : RS-232/422/485 x 1 (Ring/ +5V/ +12V)
USB	USB 3.0 x 1, USB 2.0 x 5 USB 1/2 total support 1.5A on rear I/O
Digital I/O	Supports 16-bit (Programmable 8-in/8-out) co-lay LPT
Audio	Line-in, Line-out, Mic-in , 2W Audio Amp.



## Packing List

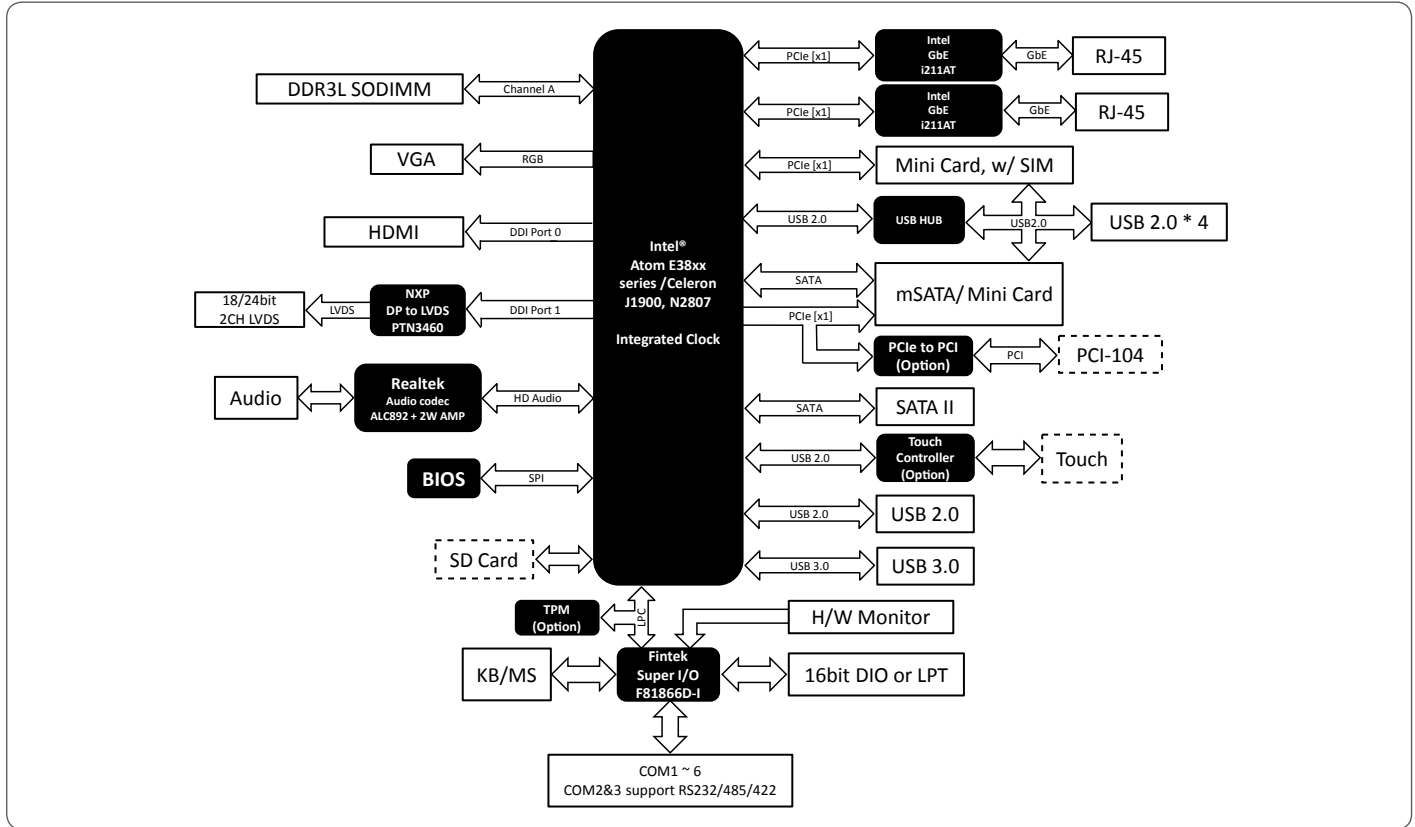
- 1709070500  
SATA Cable
- 1702150155  
SATA Power Cable
- M10BT07000  
Heat-Spreader
- Product DVD
- EPIC-BT07

## Optional Accessories

Part Number	Description	QTY
170204010R	2-Pin Power in to 4-Pin Housing Cable	1
1709100254	Audio Cable	1
1701260200	DIO/LPT Cable	1
1700050207	USB Cable	4
1700060155	PS/2 KB/Mouse Cable	1
1701090150	COM Cable	4
M16BT07000	Metal, Al, Heat Sink, 165*95*14mm, Silver, EPIC-BT07	1

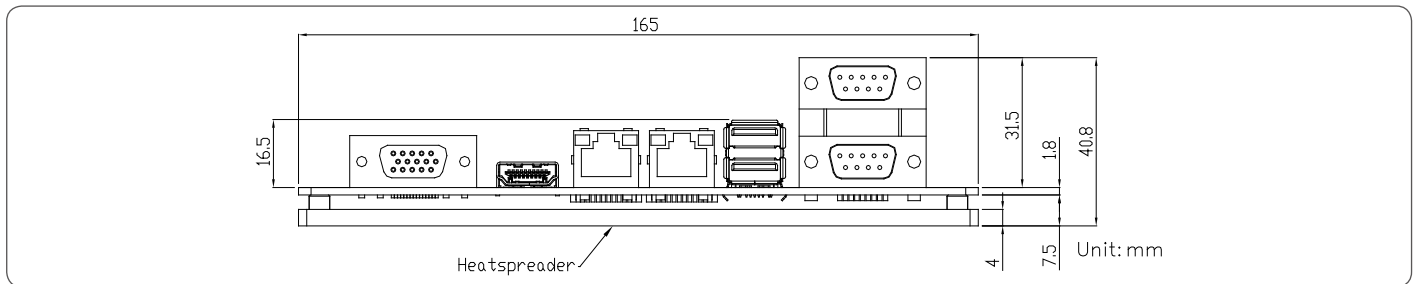
# EPIC-BT07

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	Memory	Fan/Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
EPIC-BT07-A10-0001	Atom™ E3845 (10W)	DDR3L (Max. 8GB)	Heat-Spreader (Heat-sink option)	VGA+LVDS, VGA+HDMI, LVDS+HDMI	24b, 2CH	SATA 2 x 1, mSATA x 1	GbE x 2	USB3.0 x 1 USB2.0 x 5	4	2	Mini-Card x 1, SIM x 1	9-24VDC, AT/ATX	0°C ~ 60°C	16CH DIO or LPT, Audio, 2W Amp, PS/2, SMBus
EPIC-BT07-A10-0002	Celeron® J1900 (10W)	DDR3L (Max. 8GB)	Heat-Spreader (Heat-sink option)	VGA+LVDS, VGA+HDMI, LVDS+HDMI	24b, 2CH	SATA 2 x 1, mSATA x 1	GbE x 2	USB3.0 x 1 USB2.0 x 5	4	2	Mini-Card x 1, SIM x 1	9-24VDC, AT/ATX	0°C ~ 60°C	16CH DIO or LPT, Audio, 2W Amp, PS/2, SMBus
EPIC-BT07-A10-0003	Celeron® N2807 (4.3W)	DDR3L (Max. 4GB)	Heat-Spreader (Heat-sink option)	VGA+LVDS, VGA+HDMI, LVDS+HDMI	24b, 2CH	SATA 2 x 1, mSATA x 1	GbE x 2	USB3.0 x 1 USB2.0 x 5	4	2	Mini-Card x 1, SIM x 1	9-24VDC, AT/ATX	0°C ~ 60°C	16CH DIO or LPT, Audio, 2W Amp, PS/2, SMBus