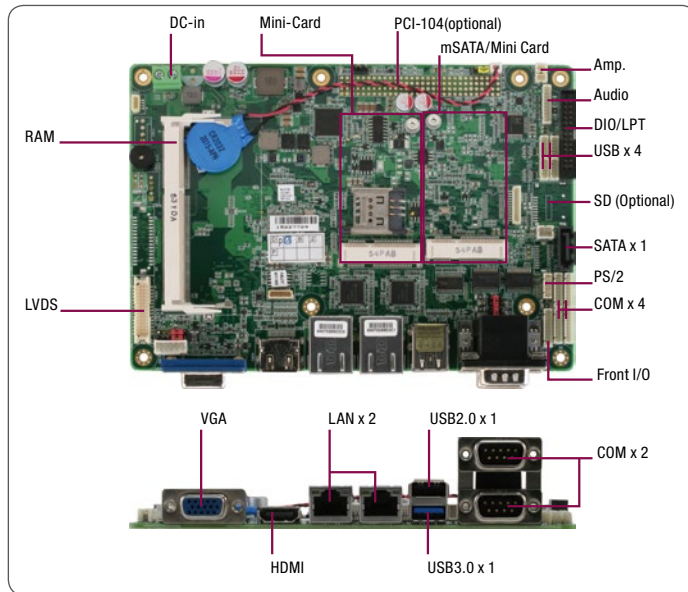


EPIC-BT07

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

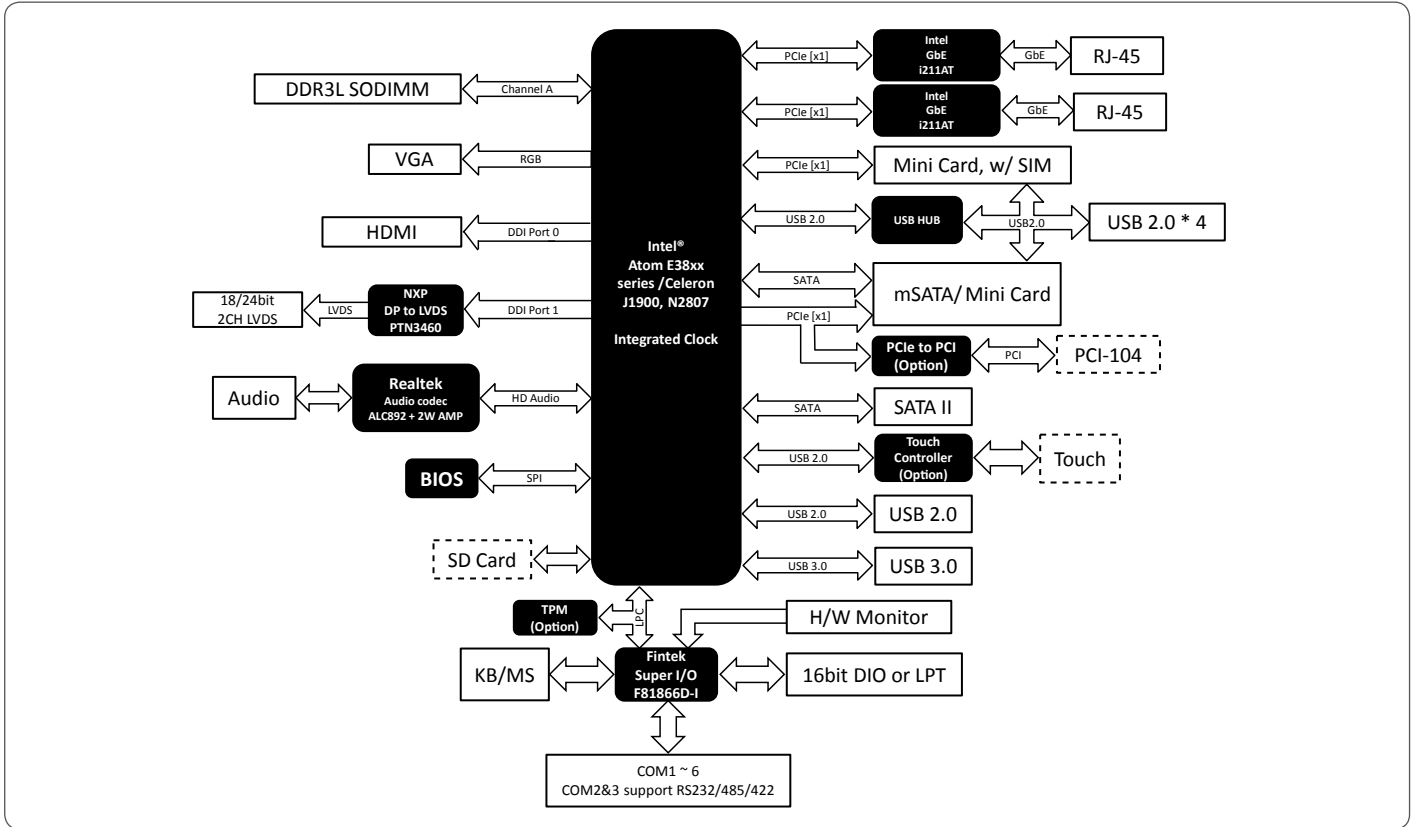
- 1709070500
SATA Cable
- 1702150155
SATA Power Cable
- M10BT07000
Heat-Spreader
- Product DVD
- EPIC-BT07

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 |

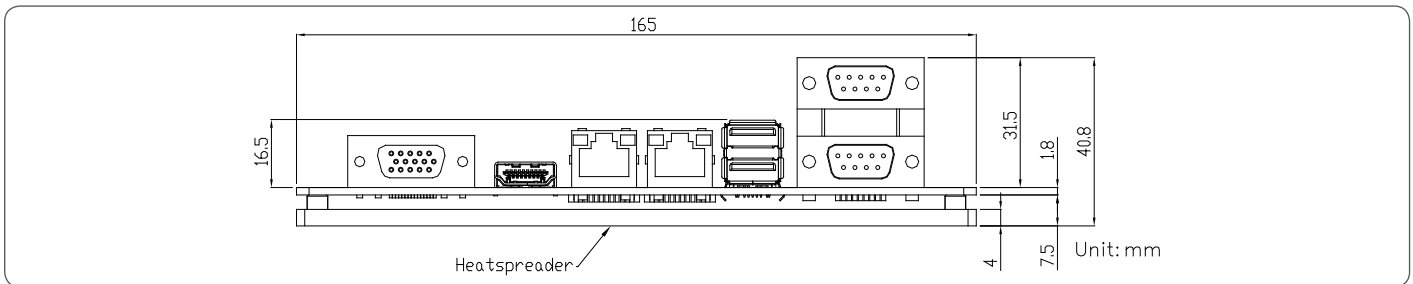
EPIC-BT07

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 |