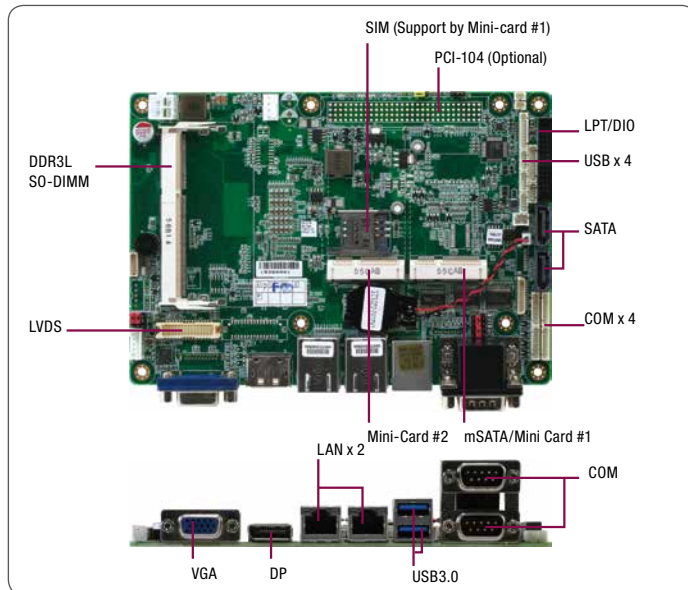


EPIC Board with 5th Generation Intel® Core™ i Series ULT Processor SoC



Specifications

| System | |
|-----------------------------|--|
| Form Factor | EPIC |
| Processor | 5th Generation Intel® Core™ i series ULT Processor SoC |
| System Memory | 204-pin SODIMM DDR3L 1600 MHz, up to 8 GB |
| Chipset | 5th Generation Intel® Core™ i series ULT Processor SoC |
| I/O Chipset | Fintek 81866D |
| Ethernet | Intel® WGI211AT x 1/ WGI218LM x 1, RJ-45 x 2 |
| BIOS | AMI/SPI |
| Wake On LAN | Yes |
| Watchdog Timer | 1~255sec support by AAEON Hi-safe |
| H/W Status Monitoring | Support by AAEON Hi-safe |
| Expansion Interface | Mini-card full size #1 (Shared with mSATA) (Optional) SIM slot x 1 support by mini-card#1 full size (Optional) Mini-card half size #2 PCI-104 x 1(optional) Touch panel screen controller and connector x 1 (optional) TPM x 1 (optional) |
| Battery | Lithium RTC battery |
| Power Requirement | +12V or +9~24V AT/ATX(default) |
| Power Consumption (Typical) | — |
| System Cooling | Heat spreader, cooler (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 | 63,500 |
| Display | |
| Chipset | 5th Generation Intel® Core™ i series ULT Processor SoC |
| Resolutions | VGA up to 1920 x 1200 @ 60 Hz or DP up to 3840 x 2160 @ 60 Hz LVDS (18/24-bit dual-channel) up to 1920 x 1200@ 60 Hz |
| LCD Interface | VGA, LVDS1, DP2, LVDS2 (Optional), eDP (Optional) |
| I/O | |
| Storage | SATA 6.0 Gb/s x 2, mSATA x 1 |
| Serial Port | COM: RS-232 x 4 COM2, COM3: RS-232/422/485 x 2 (Ring/+5V/+12V) |
| Parallel Port | SPP/EPP/ECP x 1 (co-lay with DIO) (Optional) |
| USB | USB 3.0 x 2, USB 2.0 x 4 USB 1/2 total support 1.5A on rear I/O |
| Digital I/O | Supports 16-bits (Programmable, 8-in/8-out) (Default) |
| Audio | Line-out, Line-in, Mic-in; Audio 2W Amp. |

Features

- Onboard 5th Generation Intel® Core™ i Series ULT Processor SoC
- DDR3L 1600 MHz SODIMM x 1, Up to 8 GB
- Gigabit Ethernet x 2, RJ-45 x 2
- VGA, LVDS, DP, LVDS (Optional), eDP (Optional)
- SATA 6.0 Gb/s x 2, mSATA/Mini-Card x 1
- USB 3.0 x 2, USB 2.0 x 4
- RS-232 x 4, RS-232/422/485 x 2
- Optional Touch Screen, TPM and PCI-104
- Mini-Card x 1, SIM x 1 (Optional)
- 9-24V Operation
- 15W TDP
- SoC Solder up Design



Packing List

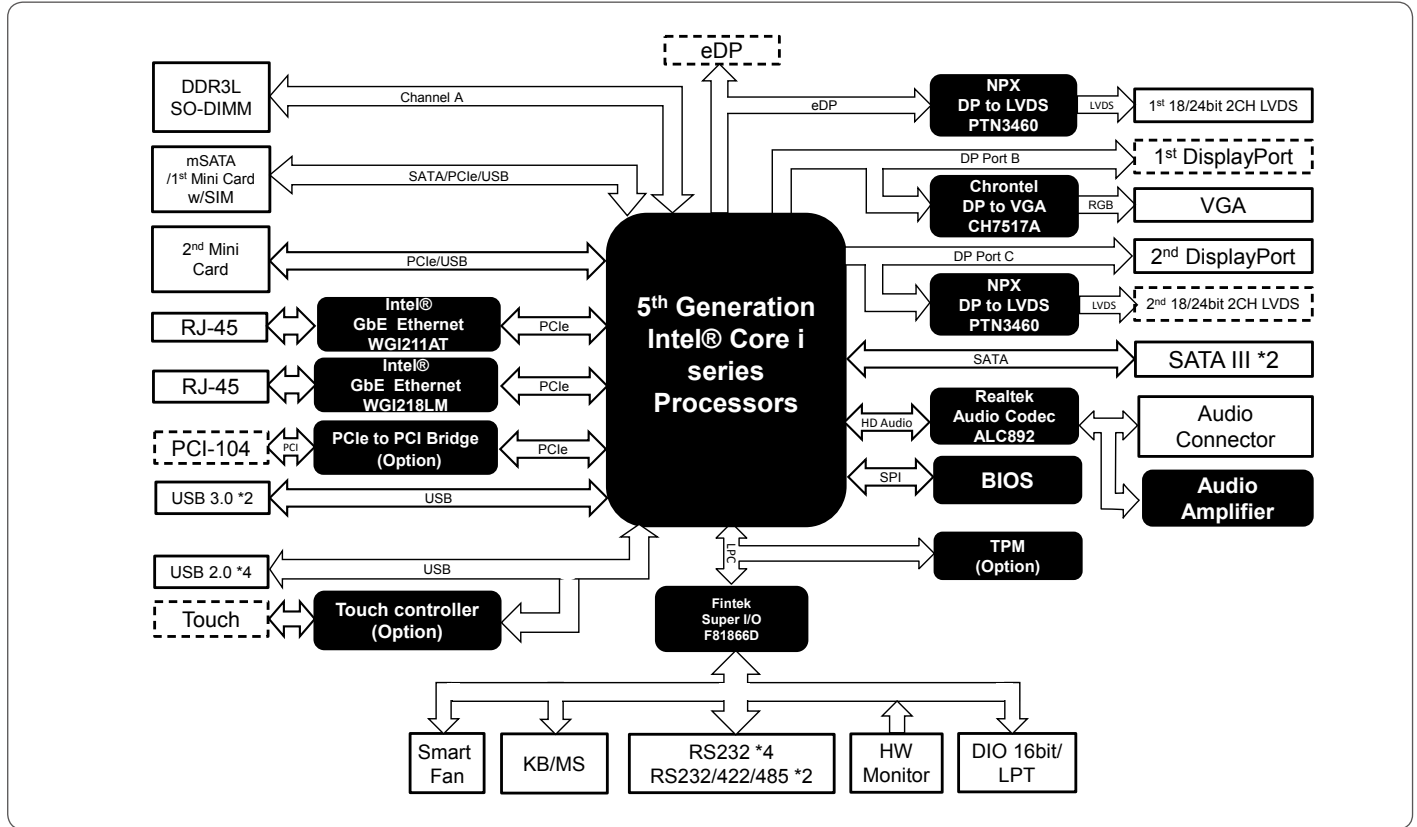
- **1709070500**
SATA Cable, Length 50 cm
- **1702150155**
SATA Power Cable, Length 15 cm
- **M10BDU7000**
Heat Spreader
- **9657666600**
Jumper Cap
- **Product DVD**
- **EPIC-BDU7**

Optional Accessories

| Part Number | Description | QTY |
|-------------|--|-----|
| 1702040151 | Power Cable (4pin), Length 15cm (Optional) | 1 |
| 1702002010 | Power Cable (2pin), Length 10cm | 1 |
| 1709100254 | Audio Cable (3pin), Length 25cm | 1 |
| 1700050207 | USB Cable (5pin), Length 20cm | 4 |
| 1701260200 | LPT Cable (25pin), Length 20cm | 1 |
| 1700060155 | PS/2 & KB Cable (6pin), Length 15cm | 1 |
| 1701090150 | COM Cable (9pin), Length 15cm | 4 |
| PER-A138 | CPU Cooler (Used with heat spreader) | 1 |

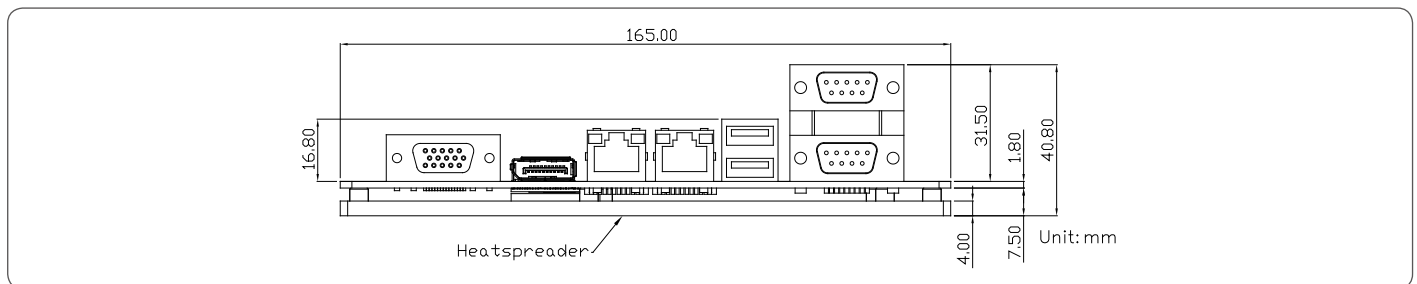
EPIC-BDU7

Block Diagram



Dimension

Unit: mm



Ordering Information

| Part Number | CPU | Memory | Thermal | Display | LVDS | Storage | LAN | USB | RS-232 | RS-232/422/485 | Expansion Slot | Power | Power Temp | Others |
|--------------------|------------------------------|-----------------|---------------|-----------------|---------------------|---------------------|---------|--------------------------|--------|----------------|----------------|-------------|------------|-------------------|
| EPIC-BDU7-A11-0001 | Dual Core i3-5010U (2.16GHz) | DDR3L (Max 8GB) | Heat Spreader | LVDS + CRT + DP | LVDS1 18/24 bit 2CH | SATA x 1, mSATA x 1 | GbE x 2 | USB3.0 x 2 USB2.0 x 4 | 4 | 2 | Mini Card x 1 | 9~24V (ATX) | 0°C ~ 60°C | DIO 16-bit, Audio |
| EPIC-BDU7-A11-0002 | Dual Core i5-5350U (1.8GHz) | DDR3L (Max 8GB) | Heat Spreader | LVDS + CRT + DP | LVDS1 18/24 bit 2CH | SATA x 1, mSATA x 1 | GbE x 2 | USB3.0 x 2 USB2.0 x 4 | 4 | 2 | Mini Card x 1 | 9~24V (ATX) | 0°C ~ 60°C | DIO 16-bit, Audio |