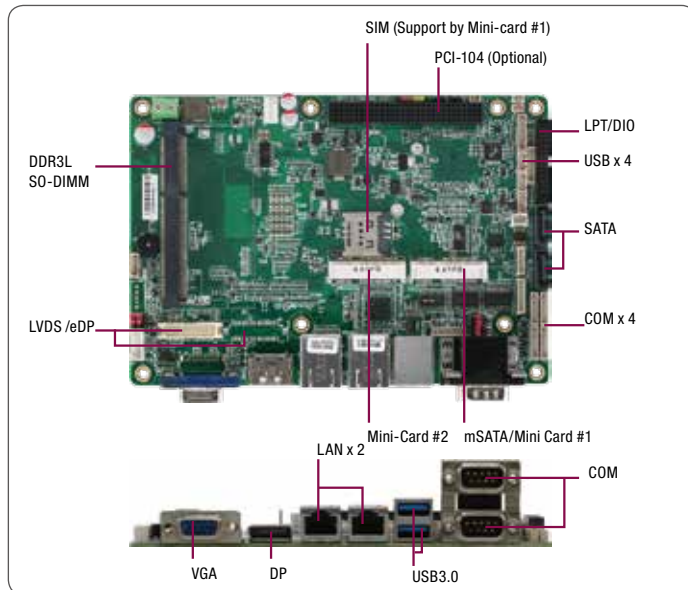


EPIC-BDU7

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

EPIC Boards



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	—
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**

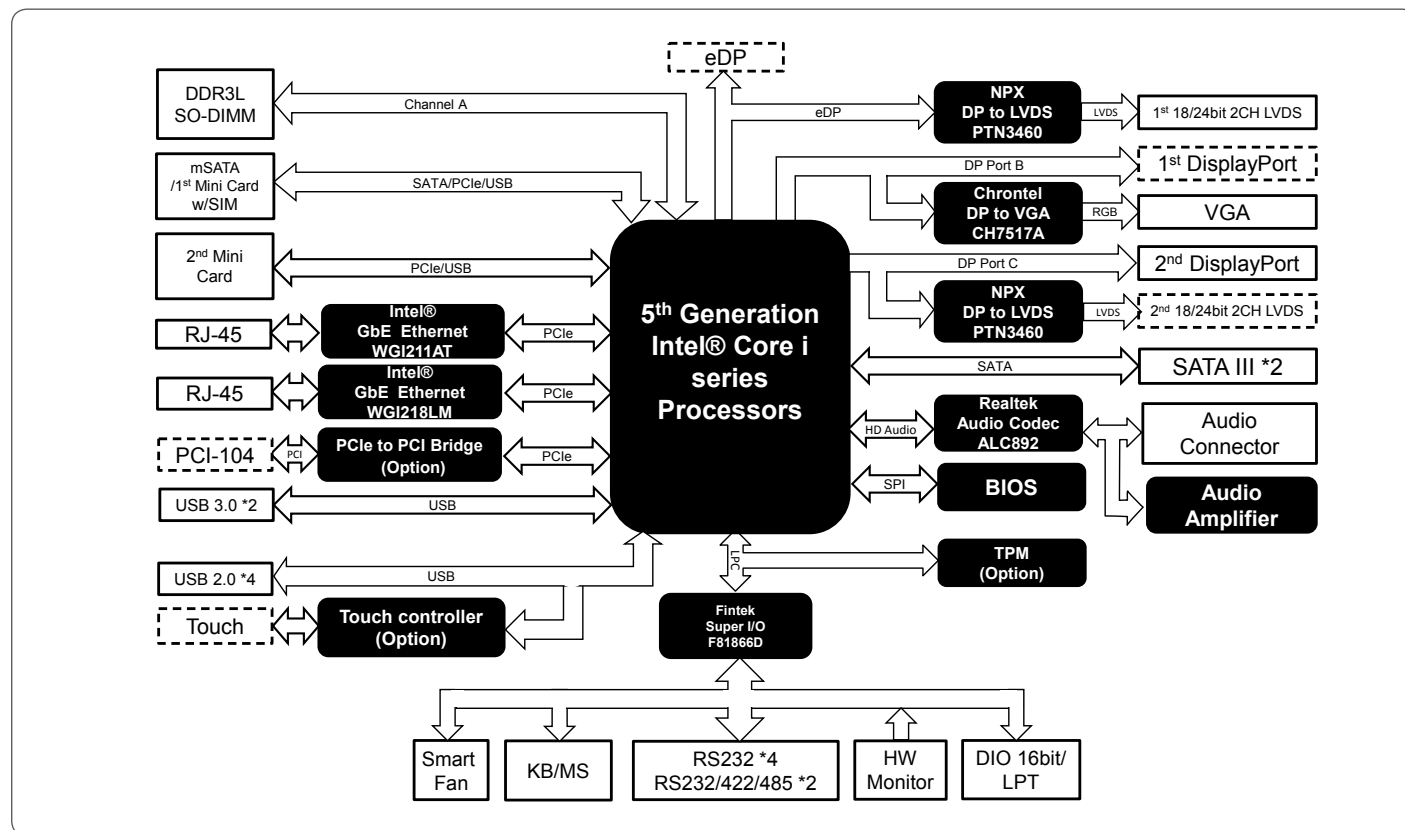
Optional Accessories

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

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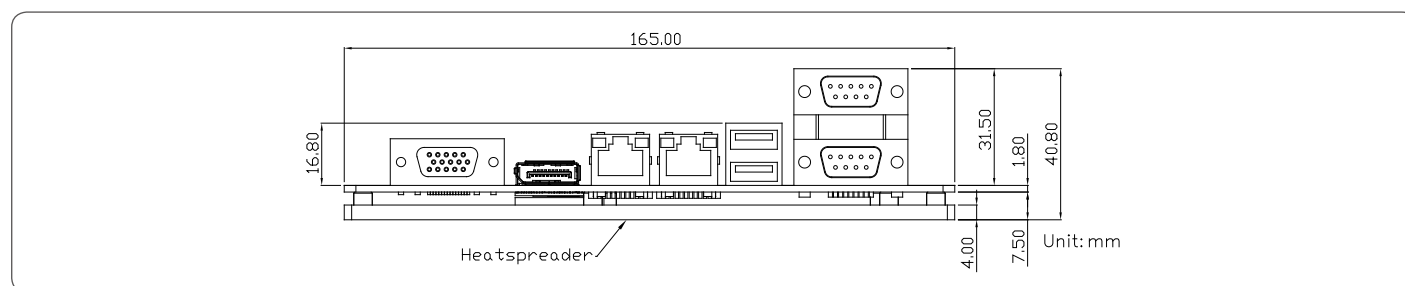
EPIC-BDU7

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-A10-0001	Dual Core i3-5010U (2.1GHz)	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-A10-0002	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