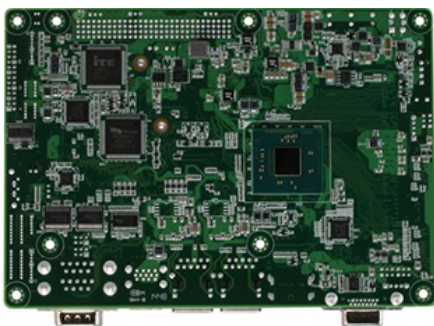
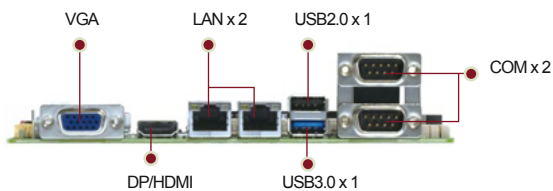
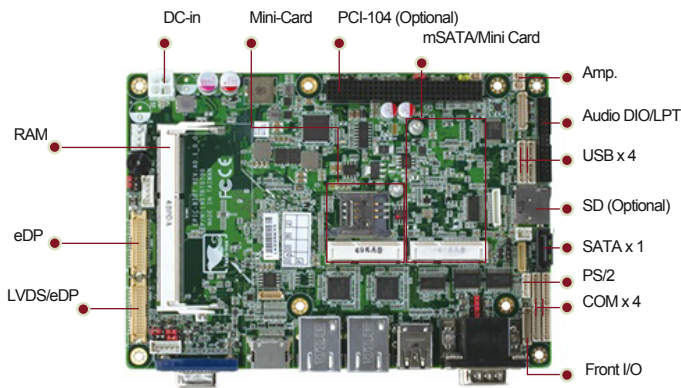


Onyx Single Board Computer Unit

EPIC-BT07

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



Features

- Onboard Intel® Atom™ E3845/ Celeron® J1900/ N2930 Processor
- DDR3L 1066/1333 MHz SODIMM x 1, Up to 8 GB
- Gigabit Ethernet x 2, RJ-45 x 2
- 24-bit Dual-Channel LVDS
- SATA 3.0 Gb/s x 1, mSATA/Mini-Card x 1
- USB 3.0 x 1, USB 2.0 x 5, RS-232 x 4, RS-232/422/485 x 2
- Mini-Card x 1, SIM x 1 (Optional)
- 16-bit Digital I/O, S MBus, I2C
- 9 ~ 24VDC Wide Range or 12VDC Power Input
- SoC On Solder Side Design
- Optional PCI-104, SD, TPM, Touch Controller, 2W Audio Amp.

Specifications

Main Specifications

Processor	Onboard Intel® Atom™ E3845/ Celeron® J1900/N2930 Processor Up to 2.0 Ghz
Form Factor	EPIC
System Memory	204-pin SODIMM DDR3L 1066/1333 MHz up to 8 GB
Chipset	Intel® Atom™ E3845/ Celeron® J1900/N2930 Processor SoC
H/W Status Monitoring	Monitoring system temperature, voltage status
Expansion Interface	Mini-Card x 1 (SIM x1), PCI-104 x 1, LPT co-lay 16-bit DIO, SMbus, I2C, TPM, Touch Controller
BIOS	AMI/SPI
Wake on LAN	Yes
Watchdog Timer	1~255 step by software program

I/O

USB	USB 3.0 x 2, USB 2.0 x 4, USB 1/2 total support 1.5A on rear I/O
Serial Port	COM: RS-232 x 4 COM2, COM3: RS-232/422/485 x 2 (Ring/ +5V/ +12V)
Ethernet	Gigabit Ethernet, RJ-45 x 2
Storage	SATA 3.0 Gb/s x 1, mSATA/ Mini-Card x 1, SDx1 (optional)
Audio	Line-in, Line-out, Mic-in , 2W Audio Amp.(optional)
Display Chipset	Intel® Atom™ E3845/ Celeron® J1900/N2930 Processor SoC
Display I/O	Supports 16-bit (Programmable 8-in/8-out) co-lay LPT
Resolutions	VGA up to 2560 x1600 @ 60 Hz, DP up to 1920 x 1200 @ 60 Hz, HDMI up to 1920 x 1200 @ 60 Hz, LVDS (18/24-bit dual) up to 1920 x 1200 @ 60 Hz, eDP up to 2560 x1600 @ 60 Hz
LCD Interface	18/24-bit Dual-Channel LVDS

Mechanical and Environmental

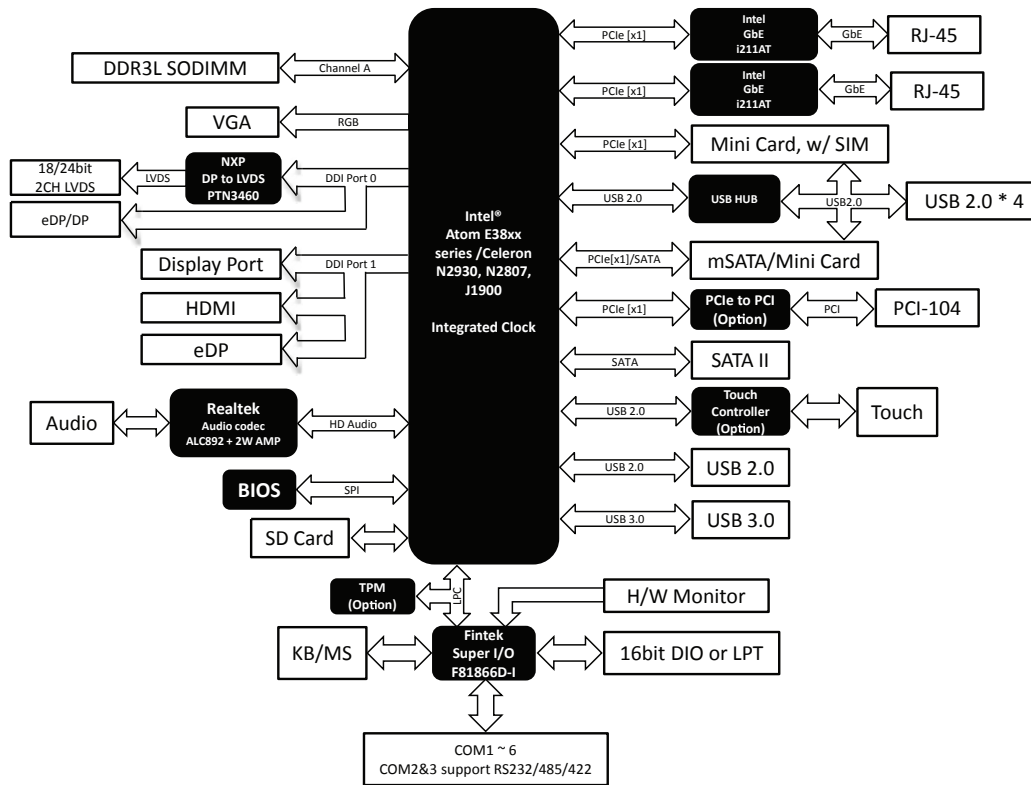
Battery	Lithium battery
Power Requirement	+12V or +9~24V AT/ATX(default)
Power Consumption	—
Operating Humidity	0% ~ 90% RH, non-condensing
Operating Temperature	32°F ~140°F (0°C ~ 60°C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Gross weight	1.2 lb (0.5 Kg)
Dimensions(W x D x H)	4.5" x 6.5" (115mm x 165mm)
MTBF (Hours)	—



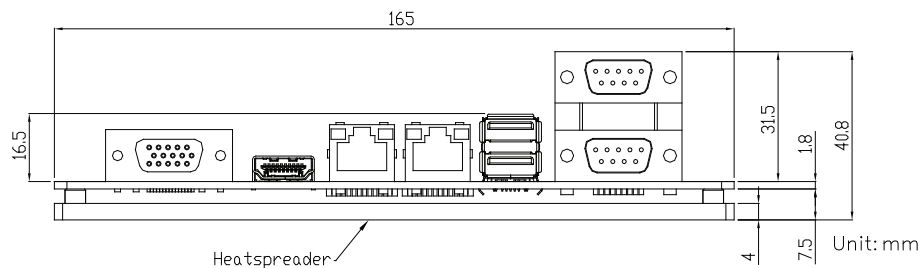
EPIC-BT07

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

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 (TBD)	Atom™ E3845	DDR3L (Max. 8 GB)	Heat Spreader	CRT+ LVDS, CRT+ DP, LVDS + DP	24b, 2CH	SATA x 1, mSATA/Mini-Card x 1	GbE x 2	USB3.0 x 1 USB2.0 x 5	4	2	Mini-Card x 1, SIM x 1	+12V (ATX)	0°C ~ 60°C	LPT or DIO 16-bit, Audio, PS/2
EPIC-BT07-A10-0002 (TBD)	Celeron® J1900	DDR3L (Max. 8 GB)	Heat Spreader	CRT+ LVDS, CRT+ DP, LVDS + DP	24b, 2CH	SATA x 2, mSATA/Mini-Card x 1	GbE x 2	USB3.0 x 1 USB2.0 x 5	4	2	Mini-Card x 1, SIM x 1	+12V (ATX)	0°C ~ 60°C	LPT or DIO 16-bit, Audio, PS/2