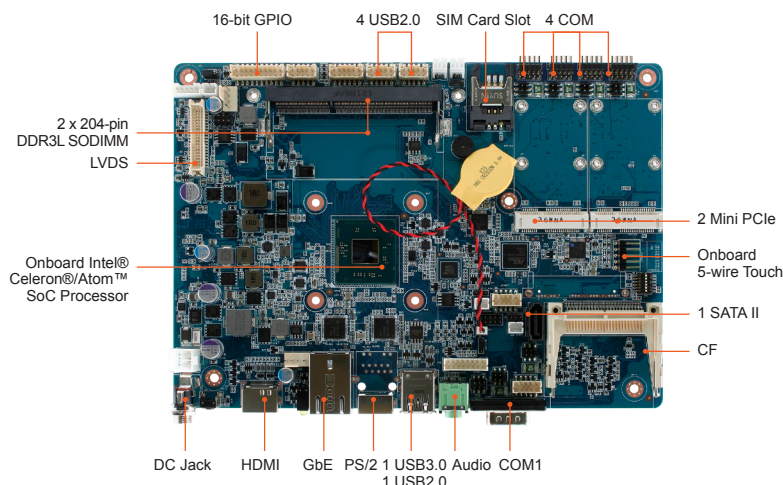




Features

- Onboard Intel® Celeron®/Atom™ SoC J1900/E3845 BGA Processor
- One 204-Pin DDR3L SO-DIMM Socket, Supports Up to 8GB DDR3L 1333MHz SDRAM
- Dual Display, Dual-channel 18/24-bit LVDS, HDMI
- HD Audio, Dual Gigabit Ethernet
- 1 x SATA II, 2 x Mini PCIe, 1 x USB 3.0, 5 x USB 2.0, 6 x COM, 1 x CF, 16-bit GPIO
- Fanless Operation

CH1

Embedded Computing-SBC



Specifications

System

Processor	Intel® Atom™ E3845 4-Core 1.91GHz processor Intel® Celeron® J1900 4-Core 2.0GHz processor
System Memory	1 x 204-Pin DDR3L 1066/1600MHz SO-DIMM up to 8 GB (Processor E3845 & J1900 only support 1333MHz)
I/O Chip	EC ITE IT8528E
BIOS	AMI uEFI BIOS, 64/ 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage

Expansion & Storage

Expansion	1 x Mini PCIe Supports SIM Card 1 x Mini PCIe Supports mSATA
Storage	1 x CompactFlash Type I/II Socket

Touch Screen

Built-in Touch controller(optional)	EETI ETP-CP-MER4485XRU USB, 5-wire Resistive
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I/O

USB	1 x USB 3.0, 5 x USB 2.0
SATA	1 x SATA II
COM Port	1 x RS-232/422/485, 5 x RS-232
Other	1 x SIM Card Slot
DIO	1 x 16bit GPIO
MIO	1 x LPC 1 x SPI 1 x PS2/ KB & MS

Display

Chipset	Intel® Valleyview SoC integrated Graphics Supports dual display
Resolution	DP : Max. resolution 2560x1600 @ 60Hz HDMI : Max. resolution 1920x1200 @ 60Hz HDMI + LVDS DP, eDP (2560 x 1600 @ 60Hz 24bpp)

Audio

Chipset	Realtek ALC892 Supports 5.1-CH
Audio Interface	Mic-In, Line-In, Line-Out

Ethernet

Chipset	2 x Intel® I210IT Bay Trail-M/D: 2 x Intel® I211AT Gigabit Ethernet Controller
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45

Mechanical & Environmental

Power Requirement	+12V ~ +26V
Power Type	AT/ATX
Operating Temperature	-40°C ~ 85°C (-40°F ~ 185°F) 0°C ~ 60°C (with Processor J1900)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Size (L x W)	8" x 5.75" (203mm x 146mm)
Weight	0.55lb (0.25kg)

Certification & Software Support

Certification	CE, FCC Class B
OS Information	Win 8, Win 7, Win XP

Ordering Information

EBM-BYT-E3845W-A1R

5.25" W/E3845/18/24bit/2LAN/6COM/1SATA

EBM-BYT-J1900-A1R

5.25" W/J1900/18/24bit/2LAN/6COM/1SATA