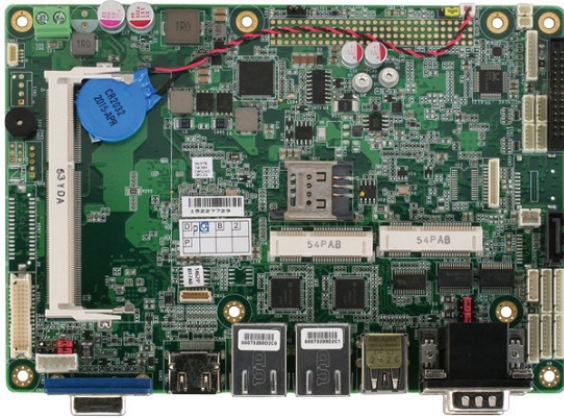


Embedded Single Board for OEM/ODM

ONYX EPIC-BT07

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



Features

- Intel® Atom™ E3845/ Celeron® J1900, N2807 Processor SoC
- DDR3L 1333MHz SoDIMM x 1, Up to 8GB
- LVDS 24-bit Dual Channel
- Dual Display Options: VGA+ LVDS, VGA + HDMI or HDMI + LVDS
- SATA 3.0Gb/s x 1, mSATA/ Mini-Card x 1, Micro-SD Slot x 1 (E3800 Series Only)
- USB 3.2 Gen 1 x 1, USB2.0 x 5, RS-232 x 4, RS-232/422/485 x 2 (COM2, COM3)
- Mini-Card x 1, SIM x 1, PCI-104 (Optional)
- 16-bit Digital IO/LPT, SMBus x 1, I2C (Optional)
- Audio 2CH, 2W Audio Amp.
- 9 ~ 24VDC Wide Range or 12VDC Power Input
- SoC Processor on Solder Side Design



Specifications

System

Form Factor	4" EPIC Board
CPU	Intel® Atom™ E3845/Celeron® J1900/N2807
CPU Frequency	Up to 2.0 GHz
Chipset	Intel® Atom™/ Celeron® SoC
Memory Type	DDR3L 1333, SODIMM x 1
Memory Capacity	Up to 8 GB
BIOS	AMI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12V or 9-24V AT/ATX (default)
Power Supply Type	AT / ATX
Power Consumption	11.8W
Dimension (L x W)	4.53" x 6.5" (115 mm x 165 mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MFTB (Hours)	110,000
Certification	CE / FCC

Display

VGA / LCD Controller	Intel® Atom™/ Celeron® SoC
Video Output	CRT, LVDS, HDMI
Backlight Inverter Supply	Max. 12V

I/O

Ethernet	Intel® i211 Gigabit Ethernet, RJ-45 x 2
Audio	High Definition Audio Interface
USB Port	USB2.0 x 5, USB 3.2 Gen 1 x 1
Serial Port	COM1, 4, 5, 6 : RS-232 x 4 COM2, 3 : RS-232/422/485 x 1 (Ring/ +5V/ +12V)
Parallel Port	SPP/EPP/ECP x 1
HDD Interface	SATA 2.0 x 1
SSD	mSATA x 1 (Share with half-size Mini-Card by BOM)
Expansion Slot	MMini-Card x 1, Micro-SD x 1 (Only E3800 series) PCI-104 x 1 (optional) 16-bit DIO or LPT SMBus x 1, I2C x 1 (optional), PS/2 x 1
DIO	16-bit
SIM	—
TPM	Optional
Touch	Optional