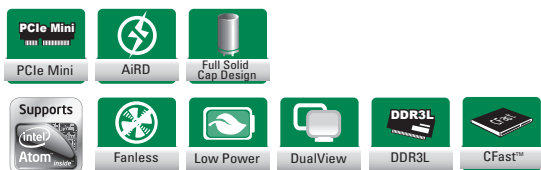
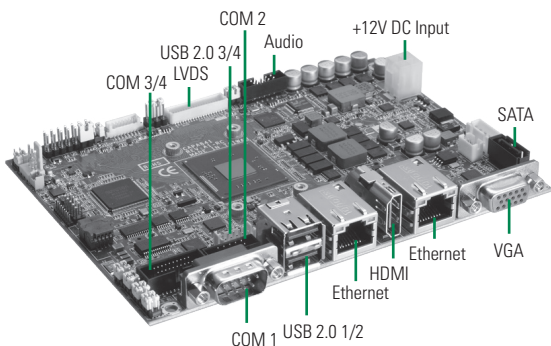


# CAPA841

Intel® Atom™ Processor E3845/E3827  
3.5" Embedded SBC with LVDS/VGA/HDMI,  
Dual LANs and Audio



## System

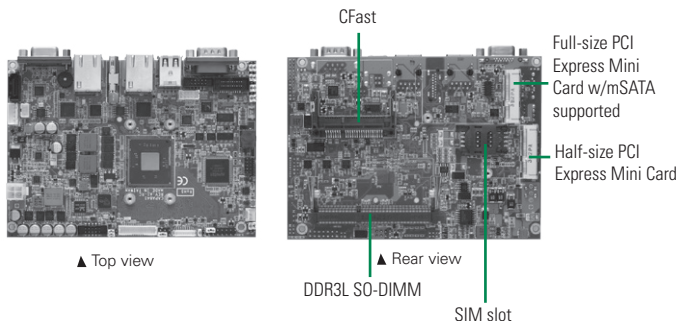
CPU	Intel® Atom™ processor E3845 quad core or E3827 dual core onboard (Bay Trail)
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM max. up to 8 GB
Chipset	SoC Integrated
BIOS	AMI
SSD	1 x CFast™
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x Full-size PCI Express Mini Card with mSATA 1 x Half-size PCI Express Mini Card 1 x SIM slot
Battery Lithium	Lithium 3V/220mAH
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® Atom™ E3845 @ 1.91 GHz, 8 GB DDR3L Max. RMS: +12V @ 1.22A Intel® Atom™ E3827 @ 1.75 GHz, 8 GB DDR3L Max. RMS: +12V @ 0.96A
Size	146 x 104 mm
Board Thickness	1.6 mm
Temperature	-40°C ~ +80°C (-40°F ~ +176°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	2 x RS-232/422/485; with +5V/+12V powered 2 x RS-232; with +5V/+12V powered
SATA	1 x SATA-300
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 x 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i210IT
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker out with Realtek ALC662
USB	4 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	8 channels IN/OUT programmed
TPM	ST ST33TPM12LPC with TPM 1.2 compliant

## Features

- Intel® Atom™ processor E3845/E3827 (Bay Trail SoC)
- 1 DDR3L SO-DIMM supports up to 8 GB memory capacity
- 4 USB 2.0 ports
- 4 COM ports
- 2 PCI Express Mini Card and 1 SIM slot
- 2 Gigabit Ethernet ports
- Display: LVDS/VGA/HDMI in dual view



## Display

Chipset	Intel® HD Graphics
Memory Size	Share System Memory
Display Interface	1 x LVDS; 18/24-bit single/dual channel 1 x HDMI

## Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable		
Cable		
Part Number	Description	Qty
59382620000E	1 x COM w/ bracket P=2.0 mm, L=300 mm	1
59384500100E	Audio cable w/ bracket P=2.0 mm, L=450 mm	1
59382631000E	2 x USB 2.0 wafer cable w/ bracket 180 mm	1
Optional		
Part Number	Description	
5078E841200E	Heatspreader	

## Ordering Information

Standard		
CAPA841VHGGGA-E3845 w/ET (P/N:E38E841109)	3.5" embedded SBC with Intel® Atom™ E3845 (1.91 GHz, 2 MB Cache, 10W), VGA/LVDS/HDMI, 2 GbE LAN and audio	
CAPA841VHGGGA-E3827 w/ET (P/N:E38E841110)	3.5" embedded SBC with Intel® Atom™ E3827 (1.75 GHz, 1 MB Cache, 8W), VGA/LVDS/HDMI, 2 GbE LAN and audio	

SBC Services and Solutions

Systems on Modules

Embedded SBCs >EPIC

3 Embedded SBCs >3.5" Capa

Embedded SBCs >Nano-ITX

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

Industrial Motherboards

Slot CPU Cards

ARM Embedded Boards

Accessories

Appendix