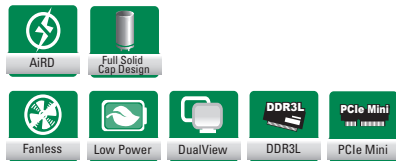


# CAPA840

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

## Features

- Intel® Atom® processor E3845/E3827
- 2 DDR3L-1066/1333 SO-DIMM, up to 8GB
- 4 USB 2.0 ports and 1 USB 3.0 port
- 2 COM ports



### Core System

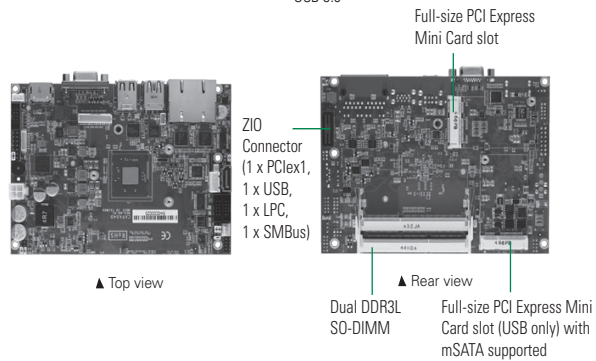
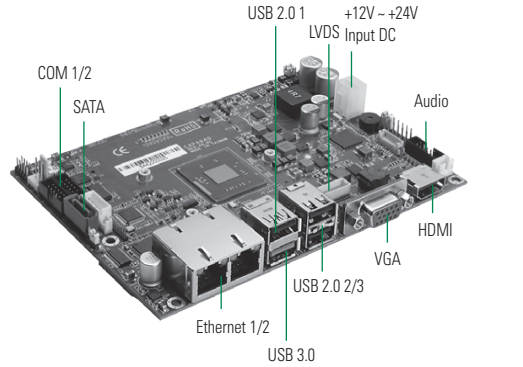
CPU	Intel® Atom® processor E3845 quad core, E3827 dual core onboard (Bay Trail)
System Memory	2 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
Chipset	SoC Integrated
BIOS	AMI
SSD	1 x mSATA
Watchdog Timer	255 levels, 1 ~ 255 sec.
Expansion Interface	1 x full-size PCI Express Mini Card slot 1 x full-size PCI Express Mini Card slot (USB only) 1 x USB, 1 x PCIe x1, 1 x LPC, 1 x SMBus through a ZIO connector
Battery Lithium	Lithium 3V/220mAH
Power Input	2 x 2-pin connector +10V ~ 24V DC-in AT Auto Power On function supported
Power Requirements	Intel® Atom® E3845 @ 1.91 GHz, 4GB DDR3L Max. RMS: +24V @ 0.68A Intel® Atom® E3827 @ 1.75 GHz, 4GB DDR3L Max. RMS: +24V @ 0.6A
Size	146 x 104 mm
Board Thickness	1.6 mm
Temperature	-20°C ~ +70°C (-4°F ~ +158°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

### I/O

MIO	1 x RS-232/422/485 (+5V/+12V powered) 1 x RS-232
SATA	1 x SATA-300
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 ports 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i211AT
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 2.0 1 x USB 3.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	8 channels IN/OUT programmed
TPM	ST ST33TPM12LPC with TPM1.2 compliant

### Display

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



### Packing List

Standard		
Quick installation guide, user's manual/utility CD and cable		
Accessories		
Part Number	Description	Qty
5938262000E	1 x COM w/ bracket, P=2.0 mm, L=300 mm	1
59384500100E	Audio cable w/ bracket, P=2.45 mm	1
594P802800E	1 x USB 2.0 wafer cable	1

### Ordering Information

Standard	
CAPA840VHGGA-E3845 (P/N: E38E840100)	3.5" Embedded SBC with Intel® Atom® processor E3845 (1.91 GHz, 2 MB Cache, 10 W), VGA/LVDS/HDMI, 2 GbE LANs and audio
CAPA840VHGGA-E3827 (P/N: E38E840101)	3.5" Embedded SBC with Intel® Atom® processor E3827 (1.75 GHz, 1 MB Cache, 8 W), VGA/LVDS/HDMI, 2 GbE LANs and audio
CAPA840VHGGA-E3845-ZIO (P/N: E38E840103)	3.5" Embedded SBC with Intel® Atom® processor E3845 (1.91 GHz, 2 MB Cache, 10 W), VGA/LVDS/HDMI, 2 GbE LANs, audio and ZIO connector
CAPA840VHGGA-E3827-ZIO (P/N: E38E840104)	3.5" Embedded SBC with Intel® Atom® processor E3827 (1.75 GHz, 1 MB Cache, 8 W), VGA/LVDS/HDMI, 2 GbE LANs, audio and ZIO connector
Optional	
AX93262 (P/N: E393262100)	ZIO module for 2 x RS-232/422/485, 2 x RS-232, 1 x PCI Express Mini Card slot
AX93285 (P/N: E393285100)	ZIO module for 2 x RS-232, 32-bit programmable DIO
AX93291 (P/N: E393291100)	ZIO module for 2 x RS-232, 2 x GbE LAN
AX93295 (P/N: E393295100)	ZIO module for 2 x isolated RS-232, 2 x USB 3.0

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660