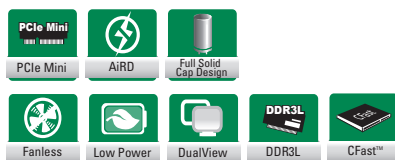


# CAPA841

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

## Features

- Intel® Atom™ processor E3845/E3827 (Bay Trail SoC)
- 1 DDR3L-1066/1333 SO-DIMM, up to 8GB
- 4 USB 2.0 ports
- 4 COM ports
- 2 PCI Express Mini Card and 1 SIM slot
- 2 Gigabit Ethernet ports
- LVDS/VGA/HDMI with dual-view supported

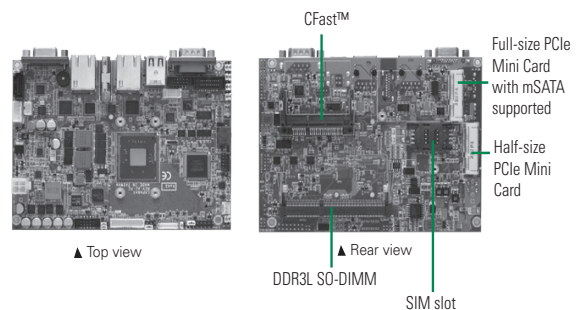
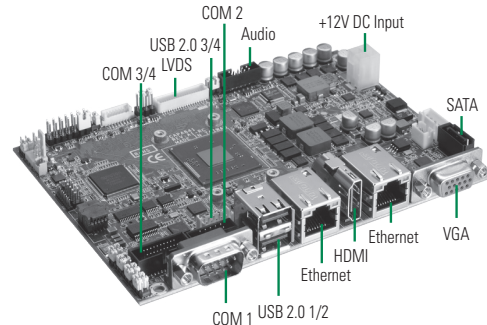


### Core System

|                     |                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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, up to 8GB                                                                                           |
| 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<br>1 x Half-size PCI Express Mini Card<br>1 x SIM slot                                    |
| Battery Lithium     | Lithium 3V/220mAh                                                                                                                        |
| Power Input         | 2 x 2-pin connector<br>+12V DC-in only<br>AT Auto Power On function supported                                                            |
| Power Requirements  | Intel® Atom™ E3845 @ 1.91 GHz, 8GB DDR3L<br>Max. RMS: +12V @ 1.22A<br>Intel® Atom™ E3827 @ 1.75 GHz, 8GB DDR3L<br>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 (+5V/+12V powered)<br>2 x RS-232 (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                                     |



### Display

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

### Packing List

| Standard                                                  |  |  |
|-----------------------------------------------------------|--|--|
| Quick installation guide, user's manual/utility CD, cable |  |  |

| Cable        |                                            |     |
|--------------|--------------------------------------------|-----|
| Part Number  | Description                                | Qty |
| 5938262000E  | 1 x COM w/ bracket, P=2.0 mm, L=300 mm     | 1   |
| 59384500100E | Audio cable w/ bracket, P=2.0 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                                 |                                                                                                             |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| CAPA841VHGGA-E3845 w/ET (P/N:E38E841109) | 3.5" Embedded SBC with Intel® Atom™ E3845 (1.91 GHz, 2 MB Cache, 10 W), VGA/LVDS/HDMI, 2 GbE LANs and audio |
| CAPA841VHGGA-E3827 w/ET (P/N:E38E841110) | 3.5" Embedded SBC with Intel® Atom™ E3827 (1.75 GHz, 1 MB Cache, 8 W), VGA/LVDS/HDMI, 2 GbE LANs and audio  |



## 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