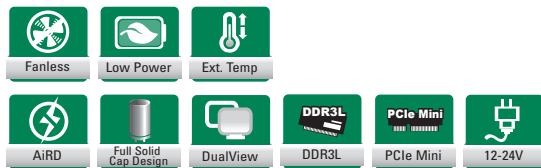


# CAPA310

3.5" Dual Embedded SBC with Intel Atom® x5-E3940 Processor, LVDS, HDMI, 2 GbE LAN and Audio

## Features

- Intel Atom® x5-E3940 processor
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 2 USB 2.0 and 4 USB 3.0
- 1 PCI Express Mini Card slot
- ZIO connector

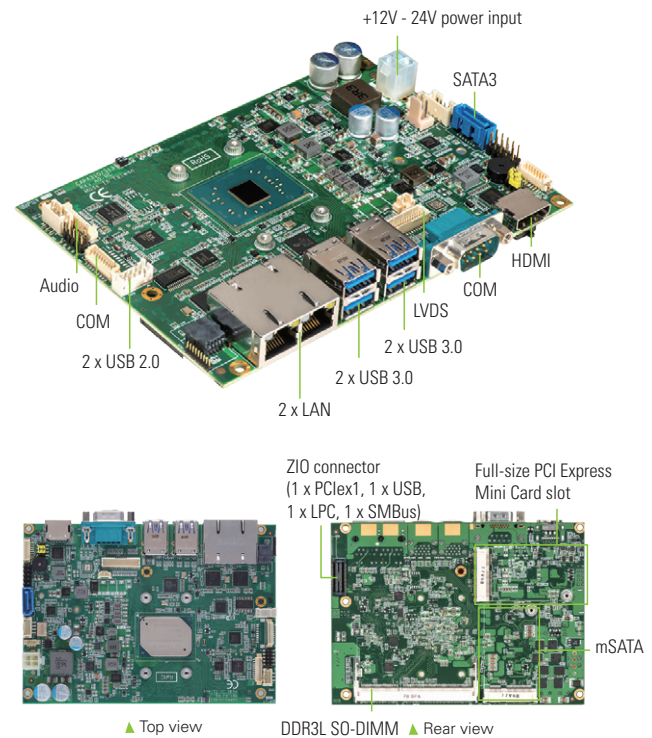


### Core System

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| CPU                   | Intel Atom® x5-E3940 processor onboard                                                                       |
| System Memory         | 1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB                                                                    |
| Chipset               | SoC integrated                                                                                               |
| BIOS                  | AMI                                                                                                          |
| SSD                   | 1 x mSATA                                                                                                    |
| Watchdog Timer        | 65536 levels, 1 to 65535 sec.                                                                                |
| Expansion Interface   | 1 x Full-size PCI Express Mini Card slot<br>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<br>+12V to 24 VDC-in<br>AT Auto Power On function supported                              |
| Power Requirements    | Intel® Atom® x5-E3940 @1.6GHz 8GB DDR3L<br>Max. RMS: +24V @0.8A                                              |
| Dimensions            | 146 x 104 mm                                                                                                 |
| Board Thickness       | 1.6 mm                                                                                                       |
| Operating Temperature | -40°C to +80°C (-40°F to 185°F)                                                                              |
| Humidity              | 10% to 95% relative humidity, non-condensing                                                                 |

### I/O

|                     |                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------|
| SATA                | 1 x SATA-600                                                                            |
| Hardware Monitoring | Detect CPU/system temperature and voltage                                               |
| Ethernet            | 2 x 10/100/1000 Mbps Ethernet with Intel® I211-AT;<br>support Wake-on-LAN, PXE Boot ROM |
| Audio               | HD Codec audio as MIC-in/Line-in/Line out with Realtek ALC888S                          |
| USB                 | 2 x USB 2.0<br>4 x USB 3.0                                                              |
| Serial              | 2 x RS-232/422/485                                                                      |
| TPM                 | ST ST33HTPHX32AHD8 with TPM 2.0 compliant (optional)                                    |
| SMBus               | Yes                                                                                     |
| Others              | 1 x I <sup>2</sup> C                                                                    |
| Digital I/O         | 8-channel in/out programmed                                                             |



### Display

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Chipset           | Intel® integrated Gfx graphic engine                                      |
| Memory Size       | Share system memory                                                       |
| Display Interface | 1 x HDMI<br>1 x LVDS; 18/24-bit single/dual channel<br>1 x VGA (optional) |

### Ordering Information

#### Standard

|                                            |                                                                                                                                             |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| CAPA310HGGA-E3940-ZIO<br>(P/N: E38E310100) | 3.5" embedded SBC with Intel Atom® x5-E3940 processor<br>(1.6 to 1.8 GHz, 2MB Cache, 9.5W), HDMI, LVDS, 2 GbE LAN, audio, ZIO, and heatsink |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|

#### Optional

|                                                     |                                                                                                                                                     |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| CAPA310HGGA-E3940-ZIO<br>w/TPM<br>(P/N: E38E310104) | 3.5" embedded SBC with Intel Atom® x5-E3940 processor<br>(1.6 to 1.8 GHz, 2MB Cache, 9.5W), HDMI, LVDS, 2 GbE LAN, audio, TPM2.0, ZIO, and heatsink |
| AX93262<br>(P/N: E393262100)                        | ZIO module for 2 RS-232/422/485, 2 RS-232, 1 PCI Express Mini Card slot                                                                             |
| AX93285<br>(P/N: E393285100)                        | ZIO module for 2 RS-232, 32-bit programmable DIO                                                                                                    |
| AX93291<br>(P/N: E393291100)                        | ZIO module for 2 RS-232, 2 GbE LAN                                                                                                                  |
| AX93295<br>(P/N: E393295100)                        | ZIO module for 2 isolated RS-232, 2 USB 3.0                                                                                                         |
| 59380880250E                                        | COM port cable DB9-9 x 1-pin, P=1.25 mm, L=250 mm                                                                                                   |
| 594E8422800E                                        | 2 x USB 2.0 cable with bracket L=180 mm                                                                                                             |
| E393A19100                                          | AX93A19, SIM card slot board                                                                                                                        |
| 59312260020E                                        | Audio cable with bracket, P=1.25 mm, L=450 mm                                                                                                       |