

Axiomtek CAPA311 3.5" Intel Atom x5-E3940 SBC with up to 8GB Memory

Key Features:

- Intel Atom x5-E3940 processor
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 2 x USB 2.0 and 4 x USB 3.0
- 2 full-size PCI Express Mini Card slots

Description

The Axiomtek CAPA311 features the onboard quad-core Intel Atom x5-E3940 processor (codename: Apollo Lake). The fanless small form factor embedded board is highly reliable with an extended operating temperature range of -40°C to +80°C and a wide range power input of 12V to 24V DC. This industrial-grade 3.5-inch embedded board is feature-rich and expandable, with stunning graphical performance. The CAPA311 is a highly versatile platform designed for Industrial IoT and intelligent systems such as industrial automation, self-service terminals, digital signage, POS/kiosk displays, medical, and more. To ensure flexible configuration and expandability, the CAPA311 has an emphasis on expandability with a full-size PCIe Mini Card slot and an optional ZIO connector for additional PCIe, LPC, USB and SMBus. Additionally, this compact embedded board features the Intel integrated Gfx graphic engine to deliver high-resolution HD support for display interfaces: HDMI, LVDS and optional VGA. It is perfectly suited for gaming and signage applications.

Website Specification

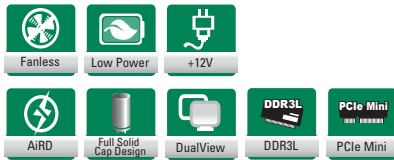
CPU	Intel Atom x5-E3940 processor onboard
Chipset	SoC integrated
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB
BIOS	AMI
COM	2 x RS-232/422/485, 2 x RS-232
USB	2 x USB 2.0, 4 x USB 3.0
Ethernet	2 x 10/100/1000 Mbps Ethernet with Intel i211-AT
Display	1 x HDMI, 1 x LVDS, 1 x VGA (optional), 1 x eDP (optional)
Digital I/O	8-channel in/out programmable
Audio	Mic-in/Line-in/Line-out
Storage	1 x SATA-600
Expansion	1 x Full-size PCI Express Mini Card slot with mSATA supported 1 x Full-size PCI Express Mini Card slot, 1 x SIM slot
Others	ST ST33TPM12LPC with TPM 1.2 compliant SMBus; compatible with I2C
Battery	Lithium 3 V/220 mAh
Power Input	2 x 2-pin connector, +12V DC-in only, AT Auto Power On function supported
Power Requirements	Intel Atom x5-E3940 @1.6GHz 8GB DDR3L, max. RMS: +12V @1.1A
Watchdog Timer	65536 levels, 1 to 65535 sec.
Hardware Monitoring	Yes
Operating Temperature	-40°C to +80°C (-40°F to +185°F)
Relative Humidity	10% – 95% relative humidity, non-condensing
Dimensions	146 x 104 mm
Board Thickness	1.6 mm
Certifications	CE

CAPA311 NEW

3.5" Embedded SBC with Intel® Atom® x5-E3940 Processor, HDMI, LVDS, 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
- 2 full-size PCI Express Mini Card slots

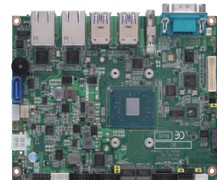
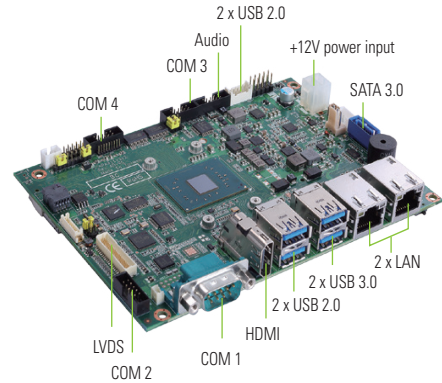


Core System

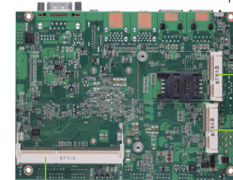
CPU	Intel® Atom® x5-E3940 processor onboard
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	N/A
Watchdog Timer	65536 levels, 1 to 65535 sec.
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA supported 1 x Full-size PCI Express Mini Card slot 1 x SIM slot
Battery Lithium	Lithium 3 V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	TBC
Dimensions	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	-40°C to +80°C (-40°F to +176°F)
Humidity	10% - 95% relative humidity, non-condensing

I/O

SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; support Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as Mic-in/Line-in/Line-out with Realtek ALC662
USB	2 x USB 2.0 4 x USB 3.0
Serial	2 x RS-232/422/485 2 x RS-232
TPM	ST ST33TPM12LPC with TPM 1.2 compliant
SMBus	Yes; compatible with fC
Digital I/O	8-channel in/out programmable



▲ Top view



DDR3L SO-DIMM ▲ Rear view

Full-size PCI Express Mini Card slot

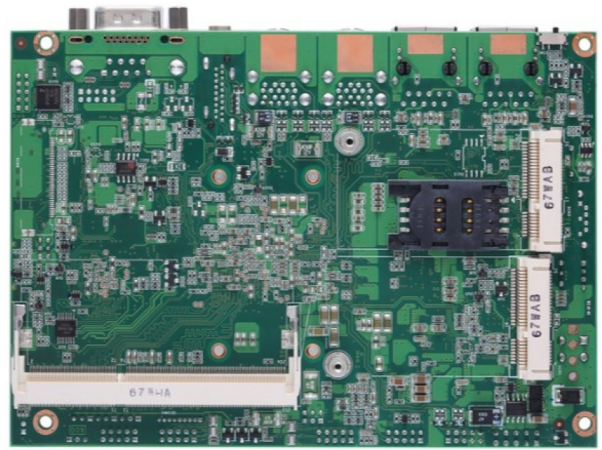
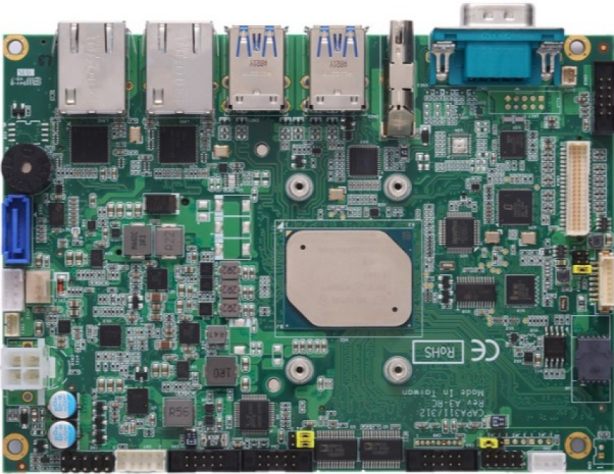
Display

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

Ordering Information

Standard	
CAPA311HGGGA-E3940	3.5" Embedded SBC with Intel® Atom® x5-E3940 processor (1.6 - 1.8 GHz, 2MB cache, 9.5W), HDMI, LVDS, 2 GbE LAN and audio
Optional	
59382620000E	1 x COM with bracket, P=2.0 mm, L=300 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59382631000E	2 x USB 2.0 wafer cable with bracket, 180 mm

Images



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.

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