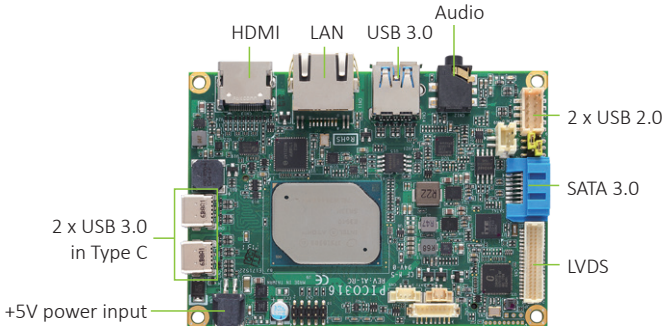
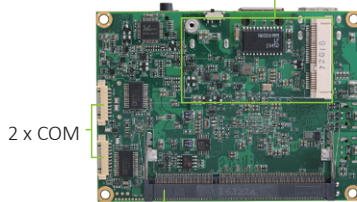


# PIC0317

Pico-ITX SBC with Intel Atom® x5-E3940 Processor, HDMI, LVDS, GbE LAN and Audio



Full-size PCI Express Mini Card slot with mSATA supported



DDR3L SO-DIMM ▲ Rear view

## Features

- Dual-core Intel Atom® x5-E3940 processor (code name: Apollo Lake)
- 1 DDR3L-1867 SO-DIMM for up to 8GB of memory
- 2 COM, 2 USB 2.0, and 3 USB 3.0
- 1 Full-size PCI Express Mini Card slot with mSATA supported
- Wide operating temperature range from -40°C to +70°C



▲ Side view



▲ Assembly view for 70°C thermal solution

## Specifications

### 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 (Optional)
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA supported
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +5V DC-in only AT Auto Power On function supported
Power Requirements	Intel Atom® x5-E3940 @1.6 GHz 8GB DDR3L, min. RMS: +5V @2.9A

### 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

## I/O

SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® I211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as Line-out with Realtek ALC888S
USB	2 x USB 2.0 3 x USB 3.0
Serial	2 x RS-232
TPM	N/A
SMBus	Yes; compatible with I <sup>2</sup> C
Digital I/O	N/A

## Mechanical and Environmental

Dimensions	100 x 72 mm
Board Thickness	1.6 mm
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	10% to 95% relative humidity, non-condensing

## Packing List

### Accessories

594H3160400E	Power cable, L=100 mm
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## Ordering Information

### Standard

PICO317HGA-E3940 (P/N: E38H317100)	Pico-ITX SBC with Intel Atom® x5-E3940 processor (1.6- 1.8 GHz, 2MB cache, 9.5W), HDMI, LVDS, GbE LAN, 3 USB 3.0, and 2 USB 2.0 (without heatsink)
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### Optional

PICO317HGA-E3940 70°C (P/N: E38H317101)	Pico-ITX SBC with Intel Atom® x5-E3940 processor (1.6- 1.8 GHz, 2MB cache, 9.5W), HDMI, LVDS, GbE LAN, 3 USB 3.0, and 2 USB 2.0 with heatsink
59380880250E	COM port cable DB9-9 x 1P, P=1.25, L=250 mm
7128H316000E	Heatspreader
594E8422800E	2 USB 2.0 cables with bracket, L=180 mm
E29R114100	5V/6A 30W adapter