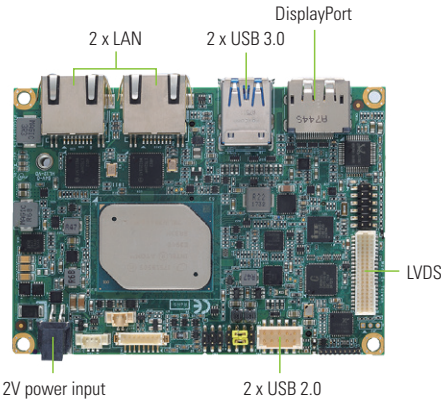
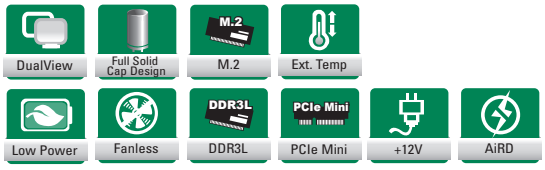
PICO319

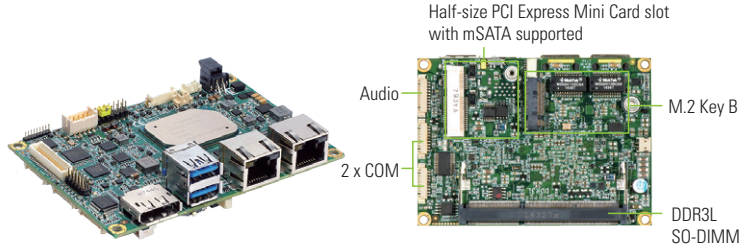
Pico-ITX SBC with Intel® Atom® x5-E3940 Processor, DisplayPort, LVDS, 2 GbE LAN and Audio

Features

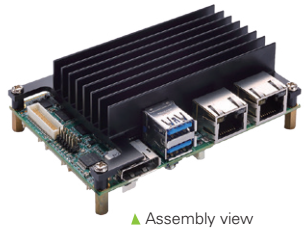
- Intel® Atom® x5-E3940 processor
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 2 GbE LAN
- 1 PCI Express Mini Card slot with mSATA supported
- Supports M.2 Key B







▲ Side view ▲ Rear view



▲ Assembly view

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 M.2 Key B (SATA, USB 2.0, USB 3.0, PCIe x2 optional) in 22 x 42 or 30 x 42
Watchdog Timer	65536 levels, 1 to 65535 sec.
Expansion Interface	1 x Half-size PCI Express Mini Card slot with mSATA supported
Battery Lithium	Lithium 3V/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 @1.6 GHz 8GB DDR3L, min. RMS: +12V @1.3A
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

I/O

SATA	N/A
Hardware Monitoring	Detect CPU/system temperature and voltage
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 2 x USB 3.0
Serial	1 x RS-232/422/485 1 x RS-232
TPM	N/A
SMBus	Yes; compatible with I^2C
Digital I/O	4-channel in/out programmed

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x DisplayPort++ 1 x LVDS; 18/24-bit single/dual channel

Packing List

Accessories	
594H3160400E	Power cable, L=100 mm

Ordering Information

Standard	
PICO319PGGA-E3940 (P/N: E38H319100)	Pico-ITX SBC with Intel® Atom® x5-E3940 processor (1.6 - 1.8 GHz, 2MB cache, 9.5W), DisplayPort, LVDS, 2 GbE LAN, 2 USB 2.0, and 2 USB 3.0 (without heatsink)

Optional	
PICO319PGGA-E3940 70°C (P/N: E38H319101)	Pico-ITX SBC with Intel® Atom® x5-E3940 processor (1.6 - 1.8 GHz, 2MB cache, 9.5W), DisplayPort, LVDS, 2 GbE LAN, 2 USB 2.0, and 2 USB 3.0 (with heatsink)
7128H319000E	Heatspreader
594H3180400E	Power cable for adapter, L=180mm
50966124050E	Adapter 12V 60W FSP060-DHAN3 with screw
59312260020E	Audio cable with bracket, P=1.25 mm, L=450 mm
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
594H3186800E	Buzzer cable 9 x 5.5 mm 2-pin, L=40 mm
E393A19100	AX93A19 SIM card slot board

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