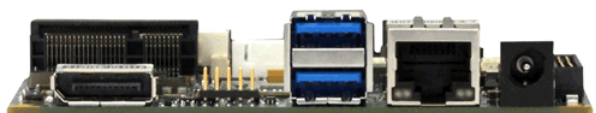
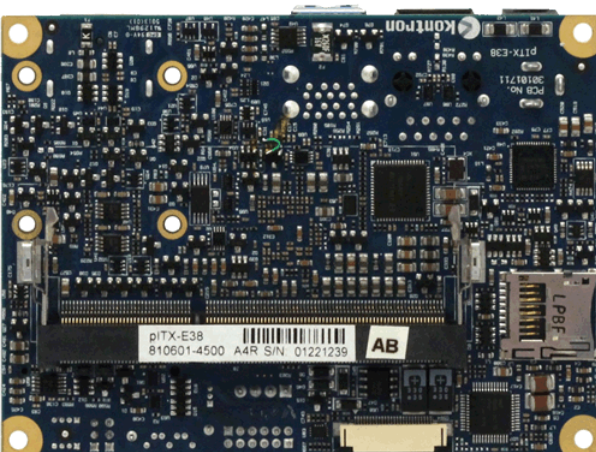
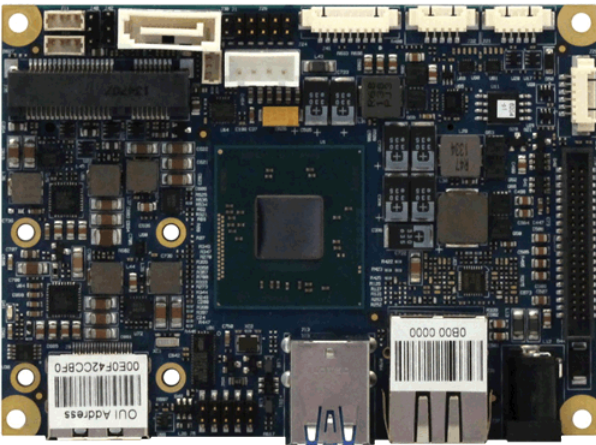


SBC-8106



Intel® Atom™ E3815 / E3826 (1.46GHz) or E3845 (1.91GHz) SoC

Up to 8GB DDR3L-1333/1066 (E3815/E3826 DDR3L-1066)

2x Serial ports UART 16550 (3v3 DIO)

3x USB 2.0 1x USB 2.0/3.0 Ports

1x 10/100/100 Mb/s Ethernet with RJ45

LVDS/DP

LVDS 24Bit dual channel and Display Port 1.1a

1x SATA 2.0, 1x mSATA shared with mPCIe

1x mPCIe® 2.0 port

10x GPIO

1x microSD card slot (SDXC)

Pico-ITX, P-ITX or 2.5" SBC form factor

HD Analog audio interface (Line-In, line-out, Mic-In)

Operating Temperature: -25°C to +75°C

10% to 90% relative humidity (non-condensing)

Passive (5W SoC) and active (7-10W SoC) cooling solutions

Power Requirements: 5V

Dimensions: 100 x 72 mm

The SBC-8106 form factor is ideal for compact PC applications. Due to its small size (100 x 72mm) it's easily integrated into virtually any system with severe space constraints and/or thermal restrictions, where other form factor simply will not fit the requirements. The compact size of SBC-8106 gives the board a unique advantage over traditional PC based motherboards like the mITX or Flex to become the preferred choice in any compact applications. The industry target for smaller size and lower power plays a bigger role these days. The pITX form factor is becoming more popular due to its increasing performance and substantial range of connectivity options, while still maintaining its compact size and low power consumption. Not only are SBC-8106 compact in size, but it also offers leading edge CPU and GPU performance with the next generation Intel® Atom™ System on Chip (SoC) and a large variety of high-speed interfaces. The SBC-8106 offers two display outputs delivering high resolution video content to LVDS driven panels or Display Port monitor as well as 3D graphics performance in a low power envelope. Not only does the low power Intel Atom™ Core provide high resolution video playback, 3D graphics and CPU core performance, but it also offers a wide range of standard interfaces. This makes the SBC-8106 board ideal for applications where compact size and standard interfaces like Gigabit Ethernet, SATA, mSATA & mPCIe are desired in a low power environment. Supporting OS bootable high capacity, high speed microSD media cards shrinks the footprint even more as applications do not necessarily require external use of SSD or HDD devices connected to the SATA port. Furthermore, the SBC-8106 board supports high-speed DDR3L memory modules which can be operated over a wide temperature range, with a passively Intel® Atom™ core cooled environment and powered by a single supply of 5Volts. The SBC-8106 supports a wide variety of Embedded and non-Embedded operating systems and 7 years supply longevity.

Specifications
SBC type.

486 Single Board Computers P-ITX

Processor
Processor.

Intel® Atom™ E3815 / E3826 or E3845 CPU

Clock Speed:

1.91 GHz

Real Time Clock:

Memory
Primary Flash:

mSATA

Secondary Flash:

Micro SD Card

Primary I/O
GPIO:

8x GPIO

SDIO:

1x microSD card slot (SDXC)

Disk Interface:

1x SATA 2.0 / 1x mSATA shared with mPCIe

Video Out:

LVDS 24Bit dual channel and Display Port 1.1a

Audio:

HD Analog audio interface (Line-In

line-out

Mic-In)

Ethernet:

1x 10/100/100 Mb/s Ethernet with RJ45

USB:

3x USB 2.0 1x USB 2.0/3.0 Ports (2 on front I/O & 2 internal)

Serial Ports:

2x Serial ports UART 16550 (3v3 digital inputs/outputs)

Watchdog:

Secondary I/O
LPI Port:

Keypad:

PS/2:

Analog on
ADC:

D/A:

Dimensions
Dimensions:

3.94 × 2.84 in

Form Factor:

Pico-ITX

Dimensions Misc.:

100 x 72 mm (Pico-ITX)

Power Requirements
Voltage:

5 V

Environmental
Low Operating Temperature:

-25 C

High Operating Temperature:

75 C

Upper Operating Humidity:

90%

Environmental Misc.:

10% to 90% relative humidity (non-condensing)

Pricing
SLC-810601-000R

Pico-ITX, pITX-E38, E3826 DC, 2xCOM, 1xUSB3, 3xUSB2, 1xGbE, Audio, HDMI/DP

\$308.00

Order:

0

Parent Product:

SBC-810600-000R

Pico-ITX, pITX-E38, E3845 QC, 2xCOM, 1xUSB3, 3xUSB2, 1xGbE, Audio, HDMI/DP

\$335.00

Order:

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Parent Product:

SBC-810602-000R

Pico-ITX, pITX-E38, E3815, 2xCOM, 1xUSB3, 3xUSB2, 1xGbE, Audio, HDMI/DP

\$270.00

Order:

0

Parent Product:

Source URL: <https://www.emacinc.com/content/sbc-8106>