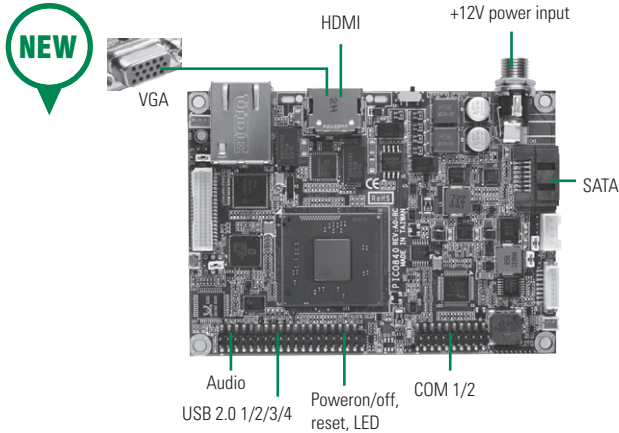


PICO840

Intel® Atom™ Processor E3845/E3827
Pico-ITX SBC with LVDS/VGA (HDMI),
LAN and Audio



System

CPU	Intel® Atom™ processor E3845 1.91GHz quad core, E3827 1.75GHz dual core onboard (Bay Trail)
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM max. up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	N/A
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x Full-Size Mini PCI Express Mini Card with mSATA supported
Battery Lithium	Lithium 3V/220mAh
Power Input	DC power jack connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® Atom™ E3845 @ 1.91 GHz, 8 GB DDR3L max. RMS: +12V @ 1.33A Intel® Atom™ E3827 @ 1.75 GHz, 8 GB DDR3L max. RMS: +12V @ 1.2A
Size	100 x 72 mm
Board Thickness	1.6 mm
Temperature	-40°C ~ +70°C (-40°F ~ 158°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	2 x RS-232/422/485
SATA	1 x SATA-300
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	1 port 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel i210IT
Audio	HD Codec audio as MIC-in/Line-out with Realtek ALC662
USB	4 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	NA
TPM	ST ST33TPM12LPC with TPM 1.2 compliant

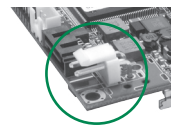
Display

Chipset	Intel® HD Graphics
Memory Size	Share System memory
Display Interface	1 x VGA or 1 x HDMI 1 x LVDS; 18/24-bit single/dual channel

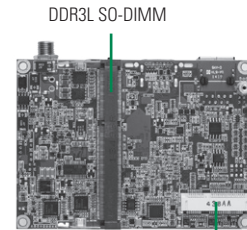
* All specifications and photos are subject to change without notice.

Features

- Intel® Atom™ processor E3845 (1.91GHz)/E3827 (1.75GHz) (Bay Trail)
- 1 DDR3L SO-DIMM supports up to 8GB memory capacity
- 4 USB 2.0 ports
- 2 COM ports (RS-232/422/485 selectable)
- PCI Express Mini Card w/mSATA supported

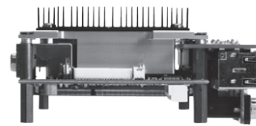


▲ Internal power connector (Optional)

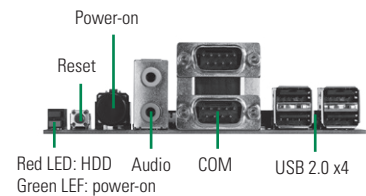


▲ Rear view

Full-size PCI Express Mini Card w/mSATA supported



▲ Assembly view



▲ I/O board AX93283

Packing List

Standard

Quick installation guide, User's Manual/Utility CD and cable

Accessories

Part Number	Description	Qty
85932831000E	AX93283 I/O board	1
594P8800600E	SATA power Cable	1
59403208000E	SATA cable	1
5078H842100E	Heatspreader	1
5078H100200E	Heatsink	1

Optional

Part Number	Description
594H8302800E	USB CABLE 20x2P P=2.0 mm L=200mm
594H8303000E	AUDIO CABLE 20x2P P=2.0 mm L=200mm
594H8301600E	Power/Reset button + LED CABLE
594H8302100E	COM CABLE 10x2P P=2.0 mm L=200mm
59340000200E	USB+AUDIO+LED CABLE L=200mm

Ordering Information

Standard

PICO840VGA-E3845 (P/N: E38H840100)	Pico-ITX SBC with Intel® Atom™ processor E3845 1.91GHz and VGA/LVDS, 1 GE, Audio and Gift Box
PICO840VGA-E3827 (P/N: E38H840104)	Pico-ITX SBC with Intel® Atom™ processor E3827 1.75GHz and VGA/LVDS, 1 GE, Audio and Gift Box
PICO840HGA-E3845 (P/N:E38H840101)	Pico-ITX SBC with Intel® Atom™ processor E3845 1.91GHz and HDMI/LVDS, 1 GE, Audio and Gift Box
PICO840HGA-E3827 (P/N: E38H840105)	Pico-ITX SBC with Intel® Atom™ processor E3827 1.75GHz and HDMI/LVDS, 1 GE, Audio and Gift Box

SBC Services and Solutions

Systems on Modules

Embedded SBCs >EPIC

Embedded SBCs >3.5' Capa

Embedded SBCs >Nano-ITX

3

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

Industrial Motherboards

Slot CPU Cards

ARM Embedded Boards

Accessories

Appendix

