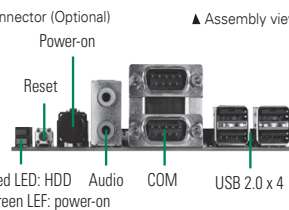
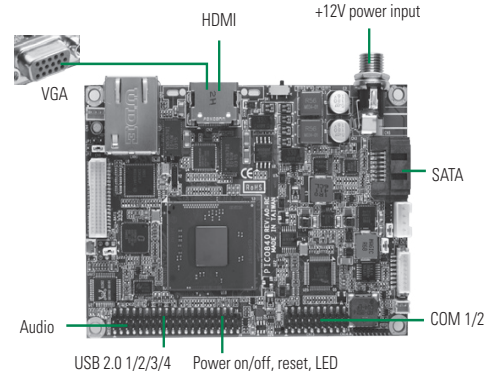
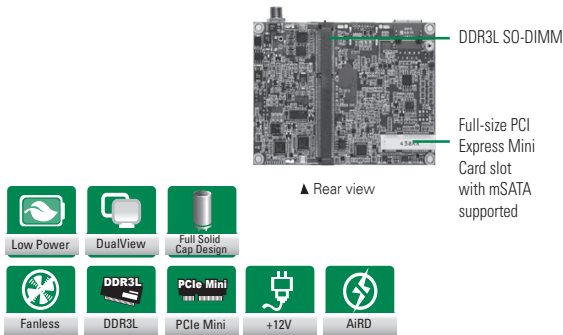


# PICO840

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

## Features

- Intel® Atom® processor E3845/E3827 (Bay Trail SoC)
- 1 DDR3L-1066/1333 SO-DIMM, up to 8GB
- 4 USB 2.0 ports
- 2 COM ports (RS-232/422/485 selectable)
- PCI Express Mini Card slot with mSATA supported



▲ I/O board AX93283

## Core System

CPU	Intel® Atom® processor E3845 quad core, E3827 dual core onboard (Bay Trail)
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	N/A
Watchdog Timer	255 levels, 1 ~ 255 sec.
Expansion Interface	1 x full-size PCI Express Mini Card slot with mSATA
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, 8GB DDR3L Max. RMS: +12V @ 1.33A Intel® Atom® E3827 @ 1.75 GHz, 8GB 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

## 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 20 x 2P, P=2.0 mm, L=200 mm
594H8303000E	Audio cable 20 x 2P, P=2.0 mm, L=200 mm
594H8301600E	Power/Reset button + LED cable
594H8302100E	COM cable 10 x 2P, P=2.0 mm, L=200 mm
59340000200E	USB + Audio + LED cable, L=200 mm

## Ordering Information

### Standard

PICO840VGA-E3845 (P/N: E38H840100)	Pico-ITX SBC with Intel® Atom® processor E3845 (1.91 GHz, 2MB Cache, 10 W), and VGA/LVDS, 1 GbE LAN, audio and gift box
PICO840VGA-E3827 (P/N: E38H840104)	Pico-ITX SBC with Intel® Atom® processor E3827 (1.75 GHz, 1MB Cache, 8 W) and VGA/LVDS, 1 GbE LAN, audio and gift box
PICO840HGA-E3845 (P/N: E38H840101)	Pico-ITX SBC with Intel® Atom® processor E3845 (1.91 GHz, 2MB Cache, 10 W), and HDMI/LVDS, 1 GbE LAN, audio and gift box



## 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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