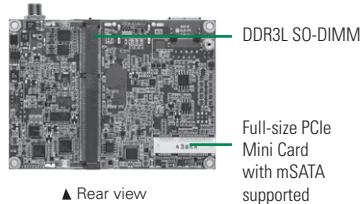


PICO840

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 with mSATA supported



Core System

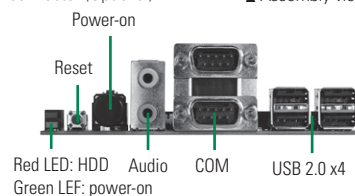
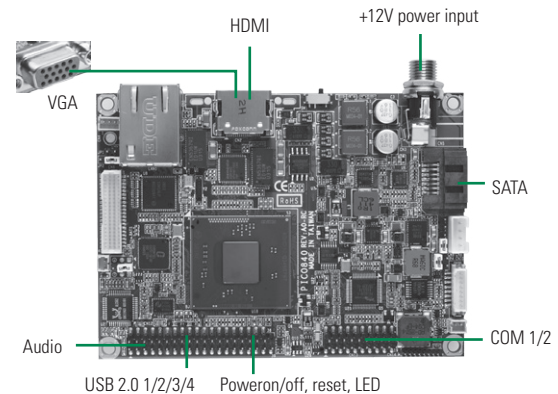
| | |
|---------------------|---|
| CPU | Intel® Atom™ processor E3845 quad core, E3827 dual core onboard (Bay Trail) |
| System Memory | 1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB |
| Chipset | SoC integrated |
| BIOS | AMI |
| SSD | N/A |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | 1 x Full-size PCI Express Mini Card 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 |



▲ 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 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, 10W), 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, 8W) 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, 10W), and HDMI/LVDS, 1 GbE LAN, audio and gift box |
| PICO840HGA-E3827 (P/N: E38H840105) | Pico-ITX SBC with Intel® Atom™ processor E3827 (1.75 GHz, 1MB Cache, 8W)and HDMI/LVDS, 1 GbE LAN, audio and gift box |