

NANO840

Nano-ITX SBC with Intel® Atom™ Processor E3845/E3827, LVDS/VGA/HDMI, Dual LANs and Audio

Features

- Intel® Atom™ processor E3845/E3827
- 1 DDR3L-1066/1333 SO-DIMM, up to 8GB
- 5 USB 2.0 ports and 1 USB 3.0 port
- 2 COM ports
- 2 PCI Express Mini Card slots

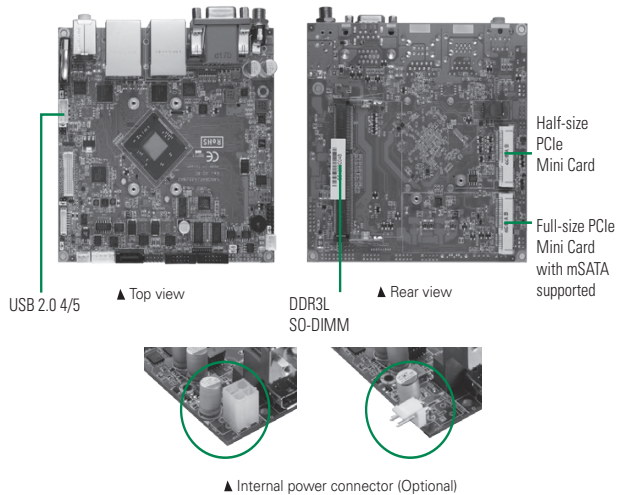
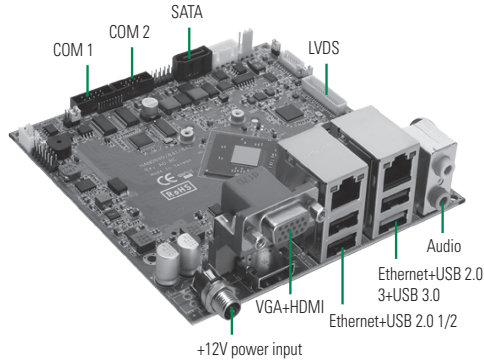


Core System

| | |
|---------------------|--|
| CPU | Intel® Atom™ processor E3845 quad core, E3827 dual core onboard |
| 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 1 x Half-size PCI Express Mini Card |
| Battery Lithium | Lithium 3V/220mAh |
| Power Input | DC power jack connector +12V DC-in AT Auto Power On function supported |
| Power Requirements | Intel® Atom™ E3845 @1.91 GHz 8GB DDR3L Max. RMS: +12V @ 0.9A Intel® Atom™ E3827 @1.75 GHz 8GB DDR3L Max. RMS: +12V @ 0.8A |
| Size | 120 x 120 mm |
| Board Thickness | 1.6 mm |
| Temperature | -40°C ~ +80°C (-40°F ~ +176°F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|---|
| MIO | 1 x RS-232/422/485 (+5V/+12V powered) 1 x RS-232 |
| SATA | 1 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature and voltage |
| Ethernet | 2 ports 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 | 5 x USB 2.0 1 x USB 3.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmed |
| TPM | ST ST33TPM12LPC with TPM 1.2 compliant |



Display

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

Packing List

| Standard | | |
|--|--|-----|
| Quick installation guide, user's manual/utility CD and cable | | |
| Cable | | |
| Part Number | Description | Qty |
| 59382620000E | 1 x COM cable w/ bracket, P=2.0 mm, L=300 mm | 1 |

| Optional | | |
|--------------|--------------------------------------|--|
| 50966124030E | ADAPTER 12V60W FSP060-DIBAN2 W/SCREW | |
| 59406260610E | SATA power, L=10cm | |

Ordering Information

| Standard | |
|-------------------------------------|--|
| NANO840VHGA-E3845 (P/N: E38K840100) | Nano-ITX SBC with Intel® Atom™ processor E3845 (1.91 GHz, 2 MB Cache, 10 W), VGA/LVDS/HDMI, 2 GbE LANs, audio and gift box |
| NANO840VHGA-E3827 (P/N: E38K840101) | Nano-ITX SBC with Intel® Atom™ processor E3827 (1.75 GHz, 1 MB Cache, 8 W), VGA/LVDS/HDMI, 2 GbE LANs, audio and gift box |

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