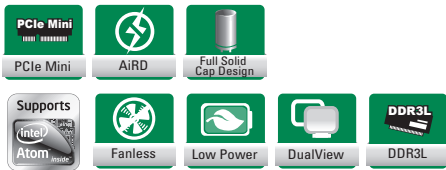
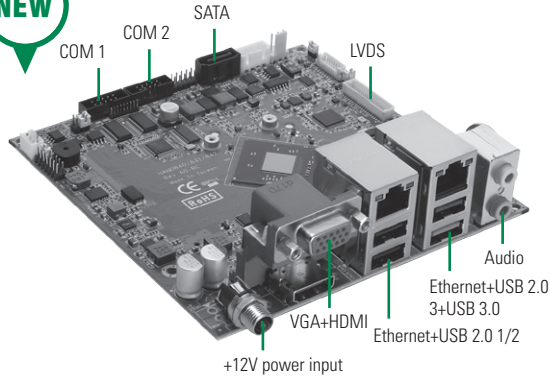


# NANO840

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

NEW



## System

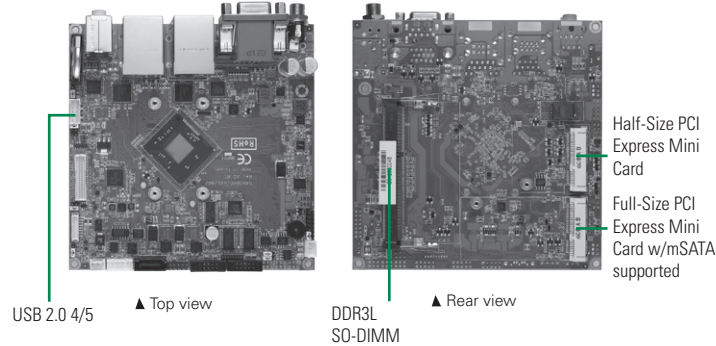
|                     |                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| CPU                 | Intel® Atom™ processor E3845 quad core, E3827 dual core onboard                                                                      |
| System Memory       | 1 x 204-pin DDR3L-1066/1333 SO-DIMM max. up to 8 GB                                                                                  |
| 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<br>1 x Half-size PCI Express Mini Card                                                |
| Battery Lithium     | Lithium 3V/220mAh                                                                                                                    |
| Power Input         | DC power jack connector<br>+12V DC-in<br>AT Auto Power On function supported                                                         |
| Power Requirements  | Intel® Atom™ E3845 @1.91 GHz 8 GB DDR3L<br>Max. RMS: +12V @ 0.9A<br>Intel® Atom™ E3827 @1.75 GHz 8 GB DDR3L<br>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; with +5V/+12V powered<br>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<br>Boot ROM with Intel® i210IT |
| Audio               | HD Codec audio as MIC-in/Line-out with Realtek ALC662                             |
| USB                 | 5 x USB 2.0<br>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                                            |

## Features

- Intel® Atom™ processor E3845/E3827
- 1 DDR3L SO-DIMM supports up to 8 GB memory capacity
- 5 USB 2.0 ports and 1 USB 3.0 port
- 2 COM ports
- 2 PCI Express Mini Cards



## Display

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

## Ordering Information

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

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Appendix

