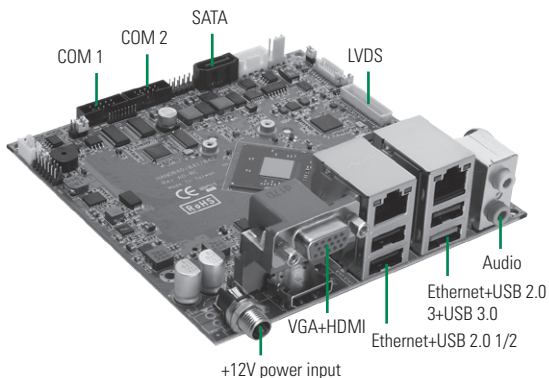


# NANO840

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



## System

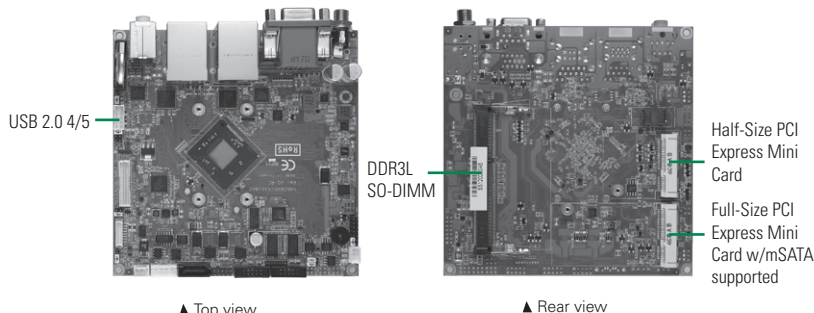
CPU	Intel® Atom™ processor E3845 1.91GHz quad core, E3827 1.75GHz dual core onboard
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM max. up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	N/A
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	1 x Full-Size Mini PCI Express Mini Card w/mSATA supported 1 x Half-Size Mini 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; with +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

## Features

- Intel® Atom™ processor E3845 (1.91GHz)/E3827 (1.75GHz)
- 1 DDR3L SO-DIMM supports up to 8 GB memory capacity
- 5 USB 2.0 ports and 1 USB3.0 port
- 2 COM ports
- 2 PCI Express Mini Cards



## Display

Chipset	Intel® HD Graphics
Memory Size	Share System memory
Display Interface	1 x VGA 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=2.0mm L=300mm	1
Optional		
50966124030E	ADAPTER 12V60W FSP060-DIBAN2 W/SCREW	

## Ordering Information

Standard	
NANO840VHGGGA-E3845 (P/N: E38K840100)	Nano-ITX SBC with Intel® Atom™ processor E3845 1.91GHz and VGA/LVDS/HDMI, 2 GE, Audio and Gift Box
NANO840VHGGGA-E3827 (P/N: E38K840101)	Nano-ITX SBC with Intel® Atom™ processor E3827 1.75GHz and VGA/LVDS/HDMI, 2 GE, Audio and Gift Box