

# NANO842

Nano-ITX SBC with Intel® Celeron® Processor J1900/N2807, LVDS/VGA/HDMI, Dual LANs and Audio

## Features

- Intel® Celeron® Processor J1900/N2807 (Bay Trail SoC)
- 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

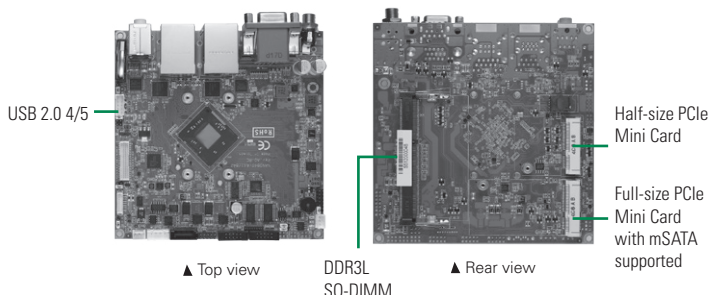
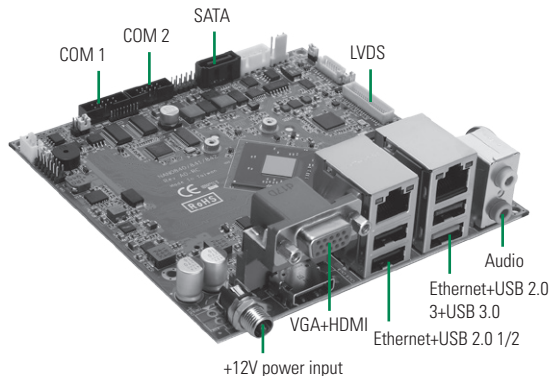


### Core System

CPU	Intel® Celeron® Processor J1900, N2807
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 jackconnector +12V DC-in AT Auto Power On function supported
Power Requirements	Intel® Celeron® J1900 @ 2 GHz 8GB DDR3L Max. RMS: +12V @0.9A Intel® Celeron® N2807 @ 1.58 GHz 8GB DDR3L Max. RMS: +12V @0.7A
Size	120 x 120 mm
Board Thickness	1.6 mm
Temperature	-20°C ~ +70°C (-4°F ~ +158°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® i211AT
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



▲ Internal power connector (Optional)

### Display

Chipset	Intel® integrated Gfx graphic engine
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

NANO842VHGA-J1900 (P/N: E38K842100)	Nano-ITX SBC with Intel® Celeron® processor J1900 (2 GHz-2.4 GHz, 2 MB Cache, 10W), VGA/LVDS/HDMI, 2 GbE LANs, and audio
NANO842VHGA-N2807 (P/N: E38K842101)	Nano-ITX SBC with Intel® Celeron® processor N2807 (1.58 GHz-2.16 GHz, 1 MB Cache, 4.3W), VGA/LVDS/HDMI, 2 GbE LANs, and audio

Embedded SBCs > Nano-ITX

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