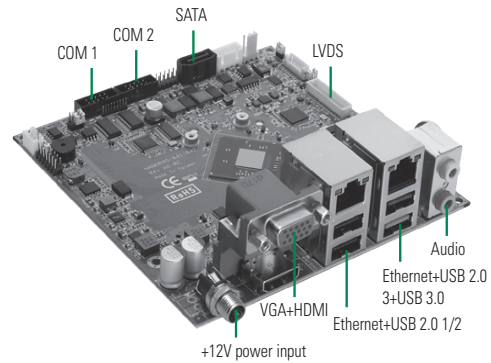


NANO842

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

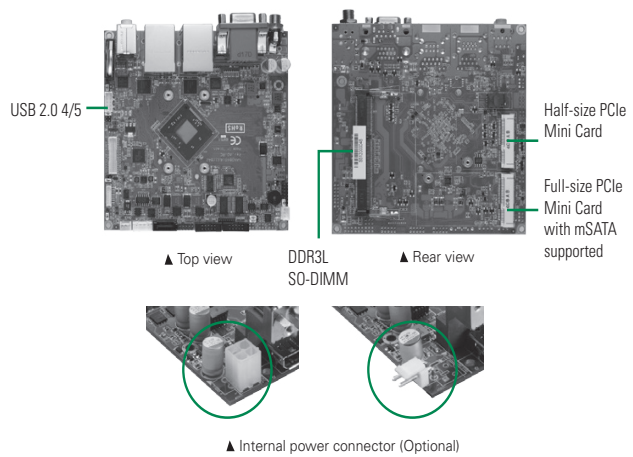


Core System

| | |
|---------------------|---|
| 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 |



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 | |
|--------------------------------------|---|
| NANO842VHGGA-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 |
| NANO842VHGGA-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 |

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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