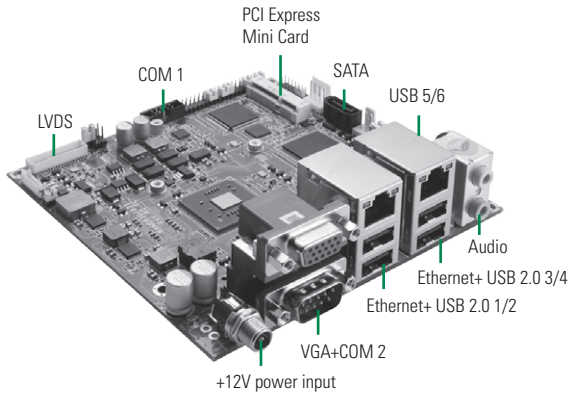


NANO831

Intel® Atom™ N2600 Nano-ITX SBC with Intel® NM10 Chipset, LVDS/VGA, Dual LANs and Audio



System

| | |
|-----------------------|---|
| CPU | Intel® Atom™ processor N2600 1.6 GHz dual core onboard |
| System Memory | 1 x 204-pin SO-DIMM supports DDR3-800 max. up to 2 GB |
| Chipset | Intel® NM10 |
| BIOS | AMI UEFI BIOS |
| SSD | 1 x CFast™ |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | 1 x PCI Express Mini Card V1.2 |
| Battery | Lithium 3V/220mAh |
| Power Input | DC power jack connector +12V DC-in only AT Auto Power ON function supported |
| Power Requirement | Intel® Atom™ N2600 @1.6 GHz, 1 GB DDR3 Max. RMS: +12V @ 0.995A |
| Size | 120 x 120 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | 0°C ~ +60°C (32°F ~ 140°F), operation |
| Operation Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

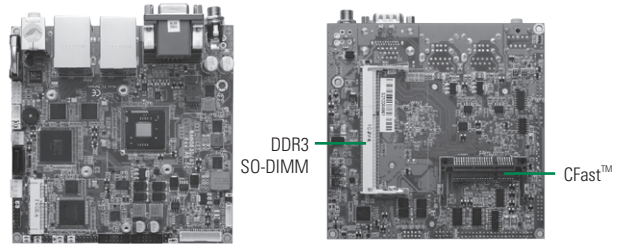
| | |
|---------------------|--|
| MIO | 1 x RS-232/422/485 (COM 1); with +5V/+12V powered 1 x RS-232 (COM 2); with +5V/+12V powered |
| SATA | 1 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed |
| Ethernet | 2 ports as 10/100/1000 Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82583V |
| Audio | HD Codec audio as MIC-in/Line-out with Realtek ALC662 |
| USB | 6 x USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmable |
| TPM | Infineon SLB9635 with TPM 1.2 compliant |

Display

| | |
|-------------------|--|
| Chipset | Intel® GMA 3600 graphics core |
| Memory Size | Share system memory |
| Display Interface | 1 x VGA 1 x LVDS; 18/24-bit single/dual channel |

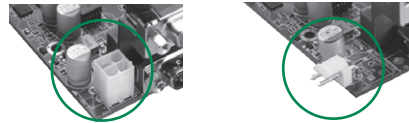
Features

- Intel® Atom™ processor N2600 (1.6 GHz)
- 1 DDR3 SO-DIMM supports up to 2 GB memory capacity
- 6 USB 2.0 ports
- 2 COM ports
- Supports CFast™
- PCI Express Mini Card supported



▲ Top view

▲ Rear view



▲ Internal power connector (Optional)

Packing List

Standard

Quick installation guide, user's manual/utility CD, cable

Cable

| Part Number | Description | Qty |
|--------------|---|-----|
| 59382620000E | 1 x COM cable w/ bracket P=2.0 mm, L=300 mm | 1 |

Optional

| | |
|--------------|---|
| 59382631000E | 2 x USB 2.0 wafer cable w/ bracket 180 mm |
|--------------|---|

Ordering Information

Standard

| | |
|------------------------------------|--|
| NANO831VGA-N2600 (P/N: E38K831100) | Nano-ITX SBC with Intel® Atom™ processor N2600, VGA/LVDS, 2 10/100/1000Mbps Ethernet, 2 COM, 6 USB, CFast™ and audio |
|------------------------------------|--|

SBC Services and Solutions

Systems on Modules

Embedded SBCs >EPIC

Embedded SBCs >3.5" Capa

Embedded SBCs >Nano-ITX

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix