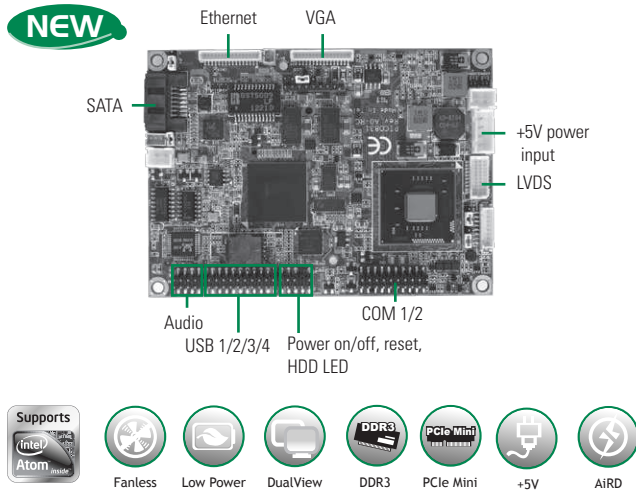


# PICO831

Intel® Atom™ N2600/ N2800 Pico-ITX SBC with Intel® NM10 Chipset, LVDS/VGA, LAN and Audio



## System

|                     |                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| CPU                 | Intel® Atom™ processor N2800 1.8 GHz, N2600 1.6 GHz dual core onboard                                                             |
| System Memory       | 1 x 204-pin DDR3-800/1066 SO-DIMM max. up to 4 GB (N2600 supports DDR3 800 max. up to 2 GB)                                       |
| Chipset             | Intel® NM10                                                                                                                       |
| BIOS                | AMI                                                                                                                               |
| SSD                 | SATA SSD 16 GB (optional)                                                                                                         |
| Watchdog Timer      | 255 levels, 1~255 sec.                                                                                                            |
| Expansion Interface | 1 x full-Size Mini PCI Express Mini Card with mSATA supported<br>1 x half-Size Mini PCI Express Mini Card                         |
| Battery             | Lithium 3V/220mAh                                                                                                                 |
| Power Input         | DC power jack connector<br>+5V DC-in only<br>AT Auto Power On function supported                                                  |
| Power Requirements  | Intel® Atom™ N2800 @ 1.86 GHz, 1GB DDR3<br>Max. RMS: +5V @ 2.9A<br>Intel® Atom™ N2600 @ 1.6 GHz, 1GB DDR3<br>Max. RMS: +5V @ 2.6A |
| Size                | 100 x 72 mm                                                                                                                       |
| Board Thickness     | 1.6 mm                                                                                                                            |
| Temperature         | 0°C ~ +60°C (32° F ~ 140° F), operation                                                                                           |
| Relative Humidity   | 10% ~ 95% relative humidity, non-condensing                                                                                       |

## I/O

|                     |                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------|
| MIO                 | 1 x RS-232/422/485<br>1 x RS-232                                                        |
| SATA                | 1 x SATA-300                                                                            |
| Hardware Monitoring | Detect CPU/system temperature and voltage                                               |
| Ethernet            | 1 port as 10/100/1000 Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111E |
| Audio               | HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662                           |
| USB                 | 4 x USB 2.0                                                                             |
| SMBus               | System Management Bus for advanced monitoring/control                                   |
| Digital I/O         | N/A                                                                                     |

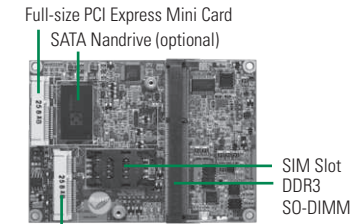
## Display

|                   |                                               |
|-------------------|-----------------------------------------------|
| Chipset           | Intel® integrated Gfx graphic engine          |
| Memory Size       | Share System memory                           |
| Display Interface | 1 x VGA<br>1 x LVDS; 18/24-bit single channel |

\* All specifications and photos are subject to change without notice.  
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## Features

- Intel® Atom™ processor N2800 (1.8 GHz)/ N2600 (1.6 GHz) dual core onboard
- Intel® NM10 chipset
- 1 DDR3 SO-DIMM supports up to 4 GB memory capacity
- 4 USB 2.0 ports
- 2 COM ports



Half-size PCI Express Mini Card ▲ Rear view



▲ Assembly view

## Packing List

### Standard

Quick installation guide, user's manual/utility CD and accessories

### Accessories

| Part Number  | Description       | Qty |
|--------------|-------------------|-----|
| 85932651000E | AX93265 I/O board | 1   |
| 85932671000E | AX93267 I/O board | 1   |
| 59406308010E | SATA cable        | 1   |
| 59405300610E | SATA power cable  | 1   |
| 5078H831000E | Heatspreader      | 1   |
| 5078H100200E | Heatsink          | 1   |

## Ordering Information

### Standard

|                                    |                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------|
| PICO831VGA-N2600 (P/N: E38H831101) | Pico-ITX SBC with Intel® Atom™ processor N2600 1.6 GHz, VGA/LVDS, 1 10/100/1000Mbps, 2 COM, 4 USB and Audio |
| PICO831VGA-N2800 (P/N: E38H831100) | Pico-ITX SBC with Intel® Atom™ processor N2800 1.8 GHz, VGA/LVDS, 1 10/100/1000Mbps, 2 COM, 4 USB and Audio |

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CPU  
Cards

Accessories

Appendix