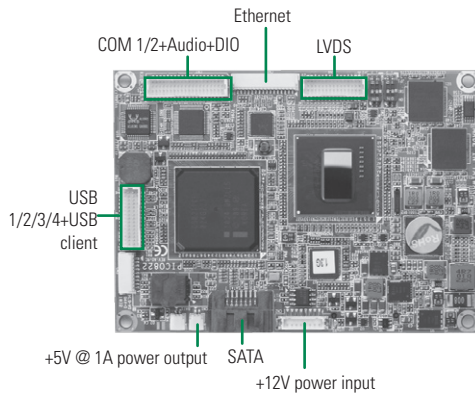


# PICO822

Intel® Atom™ E6xx Series Pico-ITX SBC with LVDS, SATA, LAN and SSD



## System

|                       |   |
|-----------------------|---|
| CPU                   | Intel® Atom™ processor E6xx series  |
| System Memory         | 1 GB DDR2-800 onboard (512MB as option)                                       |
| Chipset               | Intel® EG20T PCH  |
| BIOS                  | AMI   |
| SSD                   | SATA NAND Flash 8GB/16GB/32GB (optional)                                      |
| Watchdog Timer        | 255 levels, 1~255 sec.  |
| Expansion Interface   | 1 x SDVO, 1 x PCIe x1, 1 x UART, 1 x SMBus (through board to board connector) |
| Battery               | Lithium 3V/ 225mAH  |
| Power Input           | Customed connector via power cable<br>+12V DC-in only                         |
| Power Requirements    | Intel® Atom™ E660 1.3 GHz, 1GB DDR2<br>Max RMS: +12V @ 0.721A                 |
| Size                  | 100 x 72 mm   |
| Board Thickness       | 1.6 mm  |
| Operating Temperature | 0° ~ +60°C (32°F ~140°F), operation   |
| Relative Humidity     | 10% ~ 95% relative humidity, non-condensing                                   |

## I/O

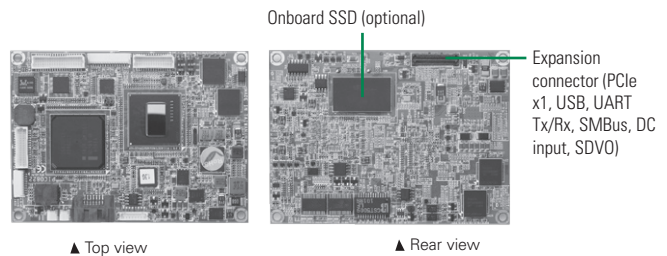
|                     |  |
|---------------------|--|
| MIO                 | 2 x RS-232   |
| SATA                | 1 x SATA-300   |
| Hardware Monitoring | Detect CPU/System temperature and voltage  |
| Ethernet            | 1 port as 10/100/1000Mbps supports Wake-on-LAN<br>RPL/PXE Boot ROM with Realtek RTL8111E |
| Audio               | HD Codec audio as Mic-in/Line-in/Line-out with<br>Realtek ALC886                         |
| USB                 | 4 x USB 2.0<br>1 x client USB 2.0  |
| SMBus               | System Management Bus for advanced monitoring/control                                    |
| Digital I/O         | 8 channels IN/OUT  |

## Display

|                   |                                    |
|-------------------|------------------------------------|
| Chipset           | Intel® GMA 600 graphics core       |
| Memory Size       | 256MB                              |
| Display Interface | 1 x LVDS; 18/24-bit single channel |

## Features

- Ultra low power Intel® Atom™ processor E6xx series
- Intel® EG20T PCH
- 2 COM and 5 USB 2.0 (1 client) supported
- LVDS LCD and backlight brightness control
- 1 10/100/1000Mbps Ethernet
- Onboard SATA NAND Flash (optional)
- ACPI S0, S3, S4, S5 supported
- CPU throttling supported
- Full hardware video encoder/decoder supported



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Appendix

## Packing List

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

## Ordering Information

### Standard

|                 |   |
|-----------------|---|
| PICO822LGA-E660 | Pico-ITX SBC with Intel® Atom™ processor E660 1.3 GHz, 1GB DDR2 |
| PICO822LGA-E640 | Pico-ITX SBC with Intel® Atom™ processor E640 1.0 GHz, 1GB DDR2 |

### Optional

|                 |   |
|-----------------|---|
| PICO822LGA-E680 | Pico-ITX SBC with Intel® Atom™ processor E680 1.6 GHz, 1GB DDR2, 16GB SSD |
| PICO822LGA-E620 | Pico-ITX SBC with Intel® Atom™ processor E620 600 MHz, 512MB DDR2         |