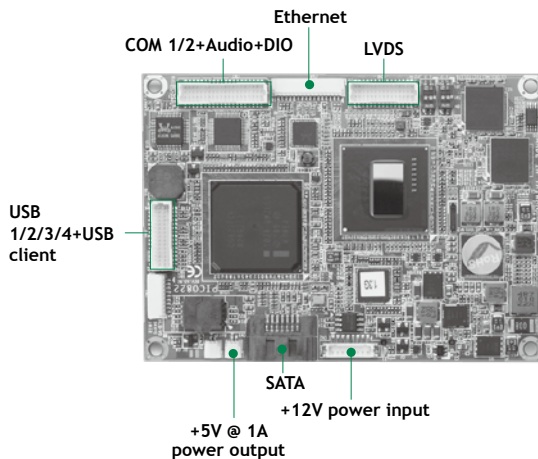


# PICO822

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



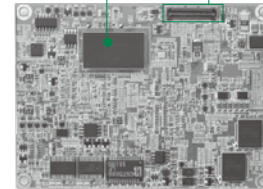
Atom™ E600  
Intel® PCH EG20T  
LVDS  
5 USB 2.0  
SATA NAND flash  
(Optional)

## Features



- Ultra low power Intel® Atom™ processor E6xx series
- Intel® PCH EG20T
- 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
- +12V only DC-in supported

Onboard SSD (optional) Expansion connector (PCIe x1, USB, UART Tx/Rx, SMBus, DC input, SDVO)



◀ Rear view



◀ Side view with heatsink

## System

CPU	Intel® Atom™ processor E6xx series
System Memory	Onboard DDR2-667/800, 32-bit 512 MB/1 GB
Chipset	Intel® PCH EG20T
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(2 wires), 1 x SMBus through expansion connector
Battery Lithium	3V/ 225mAH
Power Requirements	Intel® Atom™ E660 1.3 GHz, 1GB DDR2 Max RMS: +12V @ 0.721A
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	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 RPL/PXE Boot ROM with Realtek RTL8111E
Audio	HD Codec audio as Mic-in/Line-in/Line-out with Realtek ALC886
USB	5 x USB 2.0 (1 client port)
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

## Packing List

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

## Ordering Information

Standard	
PICO822LGA-E660 1GB DDR2	Pico-ITX SBC with Intel® Atom™ processor E660 1.3 GHz, LVDS LCD, SATA, 10/100/1000Mbps and 1 GB DDR2
PICO822LGA-E640 1GB DDR2	Pico-ITX SBC with Intel® Atom™ processor E640 1.0 GHz, LVDS LCD, SATA, 10/100/1000Mbps and 1 GB DDR2
Optional	
PICO822LGA-E680 1GB DDR2, 16GB SSD	Pico-ITX SBC with Intel® Atom™ processor E680 1.6 GHz, LVDS LCD, SATA, 10/100/1000Mbps, 1 GB DDR2 and 16 GB SSD
PICO822LGA-E620 512MB DDR2	Pico-ITX SBC with Intel® Atom™ processor E620 600 MHz, LVDS LCD, SATA, 10/100/1000Mbps and 512 MB DDR2

SBC Services and Solutions

System on Modules

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix