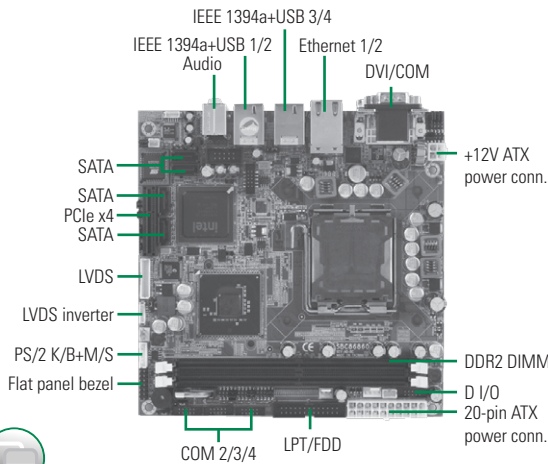


# SBC86860

LGA775 Intel® Core™2 Quad/ Core™2 Duo Mini ITX SBC with Intel® Q35 + ICH9 Chipset, DVI-I/LVDS, PCI Express x4 and Firewire



DualView

## System

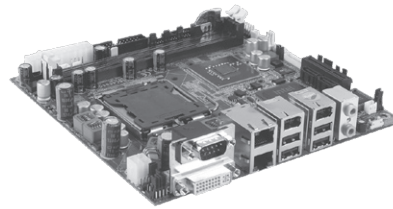
CPU	LGA775 socket for Intel® Core™2 Quad/ Core™2 Duo/ Celeron® processors with FSB 800/1066/1333 MHz
System Memory	2 x 240-pin DIMM supports DDR2-667/800 max. up to 4 GB
Chipset	Intel® Q35 + ICH9/ICH9DO
BIOS	Phoenix-Award
SSD	1 x CompactFlash™ type-II (optional)
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCIe x4 (without CF version) or 4 x PCIe x1 devices
Battery	Lithium 3V/220 mAh
Power Requirements	Intel® Core™2 Quad Q9400 2.66 GHz, 2G DDR2 Max. RMS: +5V_SBY @ 0.022A, +3.3V @ 0.682A, +5V @ 2.967A, +12V @ 2.707A, -12V @ 0.059A
Size	170 x 170 mm
Board Thickness	1.6 mm
Temperature	0° ~ +60°C (32°F ~ 140°F), operation (differentiated by CPU)
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	1 x FDD/LPT; with SPP/EPP/ECP supported 1 x PS/2 keyboard 1 x PS/2 mouse 3 x RS-232 (COM 2/3/4); with +5V/+12V powered 1 x RS-232/422/485 (COM 1); with +5V/+12V powered
SATA	4 x SATA-300; with RAID 0/1/10/5 (Optional with ICH9DO)
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B
Audio	HD Codec audio as MIC-in/Line-out/Speaker-out with Realtek ALC262
USB	8 x USB 2.0
Firewire	2 x IEEE 1394a
TPM	Infineon SLB9365 for trusted platform (optional)
SMBus	System Management Bus for advanced monitoring/control interface
Digital I/O	8 channels IN/OUT programmable

## Features

- LGA775 Intel® Core™2 Duo/ Core™2 Quad processor with FSB 800/1066/1333 MHz
- Intel® Q35 + ICH9 chipset
- 4 COM ports for transaction terminal applications
- 8 USB 2.0 ports and 2 IEEE 1394a ports
- TPM 1.2 trusted platform (optional)
- With high performance integrated graphics controller



▲ Side view

## Display

Chipset	Intel® GMA 3100 graphics core
Memory Size	Intel® DVM T 4.0 compliant
Display Interface	1 x LVDS; 18/24-bit single/dual channel 1 x DVI-I

## Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable		
Cable		
Part Number	Description	Qty
593826A0000E	SATA signal cables 500mm	1
59384500200E	COM x 2 w/ bracket,P=2.0, L=250 mm	1
59386832000E	Wafer 2.00mm 6P to PS/2 cable, L=200 mm	1

## Ordering Information

Standard	
SBC86860DGGAF (P/N: E386860100)	LGA775 Mini ITX SBC with DVI-I/LVDS LCD, 2 10/100/1000Mbps Ethernet, HD audio, 4 COM ports and firewire

SBC  
Services  
and Solutions

Systems  
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>EPIC

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SBCs  
>3.5" Capa

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SBCs  
>Nano-ITX

Embedded  
SBCs  
>Pico-ITX

Embedded  
SBCs  
>PC/104

Industrial  
Mother-  
boards

Slot  
CPU  
Cards

Accessories

Appendix