

SBC86860

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



SBC Services and Solutions

System on Modules

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

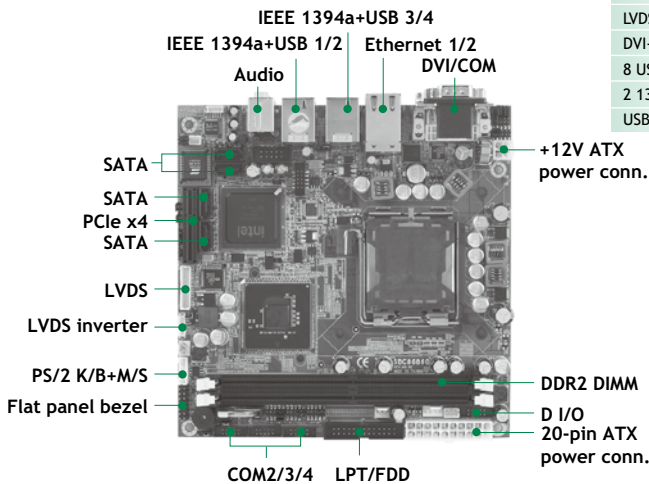
Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

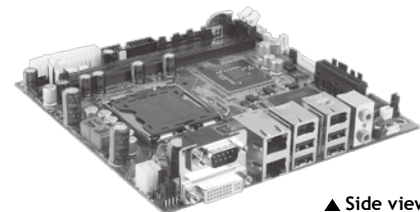
Appendix



LGA775
Intel® Q35
LVDS/VGA
DVI-I
8 USB 2.0
2 1394a
USB DoM

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

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 4GB
Chipset	Intel® Q35 + ICH9
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
Size	170 x 170 mm
Temperature	0° C ~ +60° C (32° F ~ 140° F), operation (differentiated by CPU)
Operation 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
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 ports
Firewire	2 x IEEE 1394a ports
TPM	Infineon SLB9365 for trusted platform (optional)
SMBus	System Management Bus for advanced monitoring/control interface
Digital I/O	8 channels IN/OUT programmable

Display

Chipset	Intel® GMA 3100 graphics Core
Memory Size	Intel® DVMT 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	SBC86860DGGAF Qty
593826A0000E	SATA single 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/LVDS LCD, 2 10/100/1000Mbps, HD audio, 4 COM ports and firewire