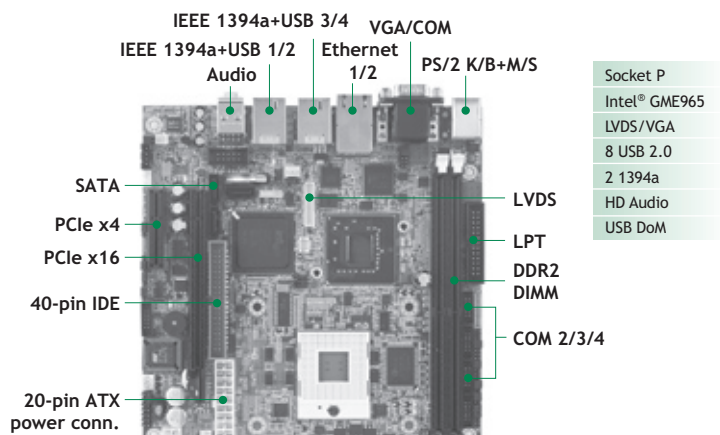


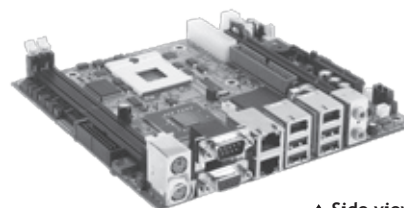
# SBC86840

Socket P Intel® Core™2 Duo Mini ITX SBC with Intel® GME965 + ICH8M/ICH8M-E Chipset, VGA/LVDS, PCI Express x16 and Firewire



## Features

- Socket P for Intel® Core™2 Duo processor with FSB 533/667/800 MHz
- Intel® GME965 + ICH8M/ICH8M-E chipset
- With high performance integrated graphics controller and discrete solution through PCIe x16 interface
- 4 COM ports for transaction terminal applications
- 8 USB 2.0 ports and 2 IEEE 1394a ports



▲ Side view

## System

CPU	Socket P for Intel® Core™2 Duo/ Celeron® M processors with FSB 533//800 MHz
System Memory	2 x 240-pin DIMM support DDR2-533/667 max. up to 4GB
Chipset	Intel® GME965 + ICH8M/ICH8M-E
BIOS	Phoenix-Award
SSD	1 x CompactFlash™ type-II (optional)
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	1 x PCIe x16 graphics port supports for SDVO or PCIe x1 devices 1 x PCIe x4 for 1 x PCIe x4 or 4 x PCIe x1 I/O devices 4 x 32-bit PCI bus masters
Battery	Lithium 3V/220 mAh
Power Requirements	Intel® Core™2 Duo T8300 2.4 GHz, 2GB DDR2 Max. RMS: +5V_SBY @ 0.034A, +3.3V @ 0.542A, +5V @ 2.02A, +12V @ 1.206A, -12V @ 0.024A
Size	170 x 170 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 IDE; PATA-100 1 x FDD/LPT(default); 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	3 x SATA-300; with RAID 0/1 (optional)
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 <sup>st</sup> port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82566DM 2 <sup>nd</sup> port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82573V
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

## Display

Chipset	Intel® GMA X3100 graphics Core
Memory Size	Intel® DVM 4.0 compliant
Display Interface	1 x VGA 1 x LVDS; 18/24-bit single/dual channel

## Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable, CPU cooler		
Cable		
Part Number	Description	Qty
593826A0000E	SATA single cable 500mm	1
59382601000E	Ultra DMA66 IDE cable 40-pin 455mm	1
59384500200E	COM x 2 w/ bracket, P=2.0, L=250mm	1
59386831000E	USB cable x 2 w/ bracket, P=2.54mm L=180mm	1

## Ordering Information

Standard	
SBC86840VGGAF	Socket P Mini ITX SBC with VGA/LVDS LCD, (P/N: E386840100)
	2 10/100/1000Mbps Ethernet, HD audio, 4 COM ports and firewire