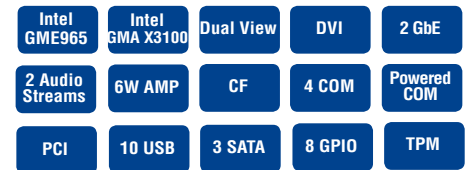


Features

- Supports Intel® Core™ 2 Duo / Core™ Duo / Core™ 2 Solo / Core™ Solo CPU
- Intel® GME965 / ICH8-M Chipset
- Two SODIMMs up to 4 GB 2-CH DDR2 533/667 SDRAM
- Dual View, 2-CH LVDS, DVI
- Intel® Graphics Media Accelerator X3100
- Realtek ALC888 Supports 5.1+2-CH Audio Streams, 6W AMP
- Dual Realtek RTL8111B Gigabit Ethernet
- 1 PCI 2.2, 1 CF
- 4 COM (5V/12V), 10 USB, 3 SATA, 8-bit GPIO
- TPM 9635 TCG 1.2



System

CPU	Supports Intel® socket P Core™ 2 Duo / Core™ Duo / Core™ 2 Solo / Core™ Solo CPU with 65nm process technology
FSB	533/800 MHz
BIOS	AMI 16 Mb SPI BIOS
System Chipset	Intel® GME965 / ICH8-M
I/O Chip	Winbond W83627DHG-A
System Memory	Two 200-pin SODIMM sockets support up to 4 GB Dual Channel DDR2 533/667 SDRAM
SSD	One CompactFlash Type I/II socket
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring CPU temperature, voltage, and fan status with auto throttling control
Expansion	One PCI (PCI Rev. 2.2 compliant) supports 3 PCI master
TPM	TPM (Infineon SLB 9635 TCG 1.2)
S3	S3 Support
SmartFan Control	Yes

I/O

MIO	1x EIDE, 3 x SATA, 1 x K/B, 1 x Mouse, 4 x RS232 (COM1~4 with Power output)
USB	10 x USB 2.0
DIO	8-bit General Purpose I/O for DI and DO

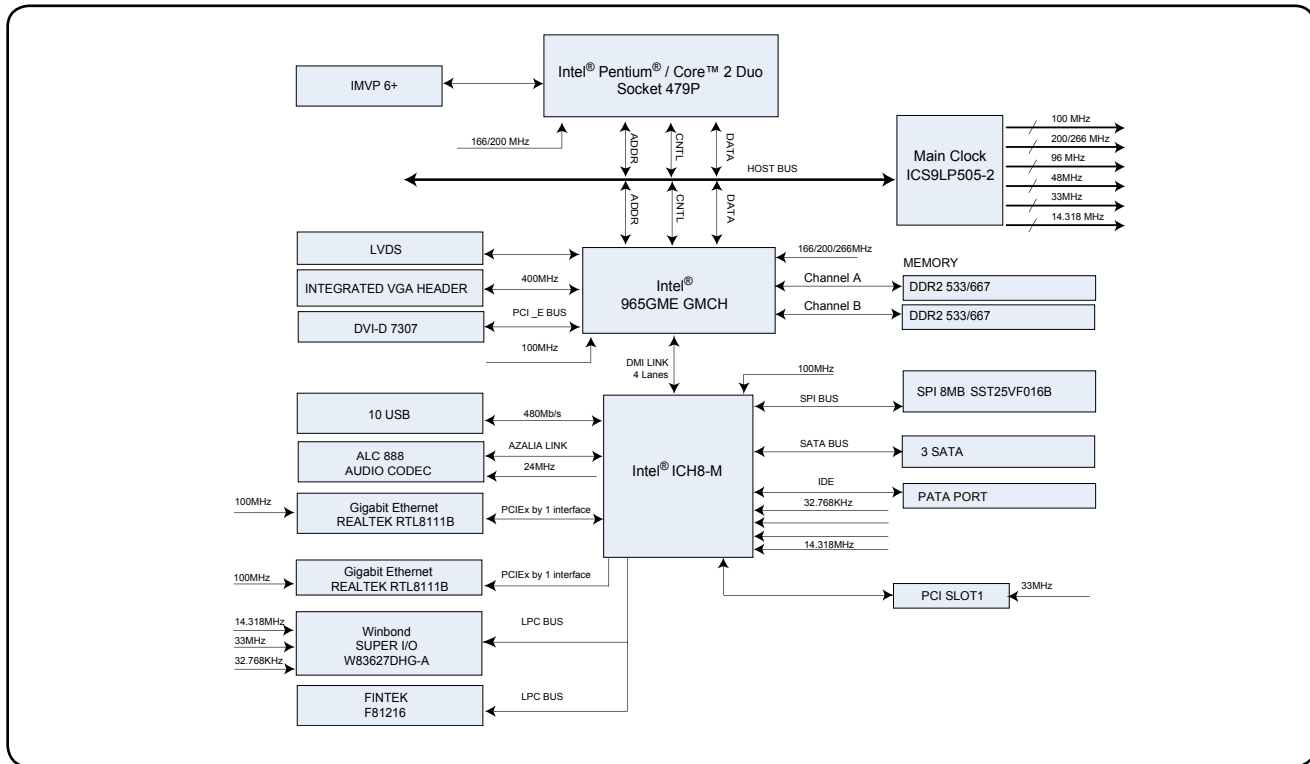
Display

Chipset	Intel® GME965 integrated Graphics Media Accelerator X3100
Display Memory	Intel® DVM T 4.0 supports up to 384 MB shared video memory
Resolution	2048 x 1536 @ 32 bpp(@ 60Hz)
Dual Display	CRT + LVDS, or CRT + DVI-D
LVDS	Dual-channel 18/24-bit LVDS
DVI	Chrontel CH7307C DVI transmitter up to 165M pixels/second

Audio

Audio Code	Realtek ALC888 high-definition Audio Codec supports 5.1+2-CH independent audio streams
Audio Interface	Mic in, Line in, (CD Audio in), Line out
Audio Amplifier	TPA3005D2 6W (per front channel) stereo amplifier

Block Diagram



1
ATX

2
Micro
ATX

3
Mini
ITX

4
Nano
ITX

Ethernet

LAN 1	Realtek RTL8111B PCIe Gigabit Ethernet
LAN 2	Realtek RTL8111B PCIe Gigabit Ethernet

Rear Panel I/O Port

Rear Panel I/O Port	<ul style="list-style-type: none"> 1 x PS/2 Keyboard 1 x PS/2 Mouse 2 x RS-232 (with 5V/12V output) 1 x VGA port 1 x DVI port 4 x USB 2.0/1.1 2 x RJ-45 Port Audio I/O (3 Jacks)
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Internal I/O Connector

Internal I/O Connector	<ul style="list-style-type: none"> 3 x USB connectors support 6 USB ports 1 x 20-pin ATX Power connector 1 x IDE 40-pin connector for two devices 2 x COM port header (with 5V/12V output) 3 x SATA connectors 1 x Front panel audio connector 1 x Audio amplifier connector 1 x System panel connector 1 x LVDS connector 1 x Inverter Power connector 1 x CPU Fan connector 1 x System Fan connector 1 x Digital I/O header 1 x SPDIF Out connector reserved
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Mechanical & Environmental

Power Type	ATX
Operating Temperature	0~60°C (32~140°F)
Operating Humidity	0%~90% relative humidity, non-condensing
Size (L x W)	6.69" x 6.69" (170 mm x 170 mm)
Weight	0.88 lbs (0.4 Kg)

5
ACP

6
System

7
Accessory

Ordering Information

EMX-965GME-A1R Intel® GME965 Core™ 2 Duo Mini ITX Motherboard with VGA, LVDS/DVI, Audio, Dual GbE, 4 COM, 10 USB, 2 SATA, 8-bit GPIO, 1 PCI, 6W AMP & TPM w/ SATA cable, IDE cable, Bracket, CD driver