

GMB-945

Intel® Core™ 2 Duo Mini ATX Game Embedded Motherboard

Preliminary



Features

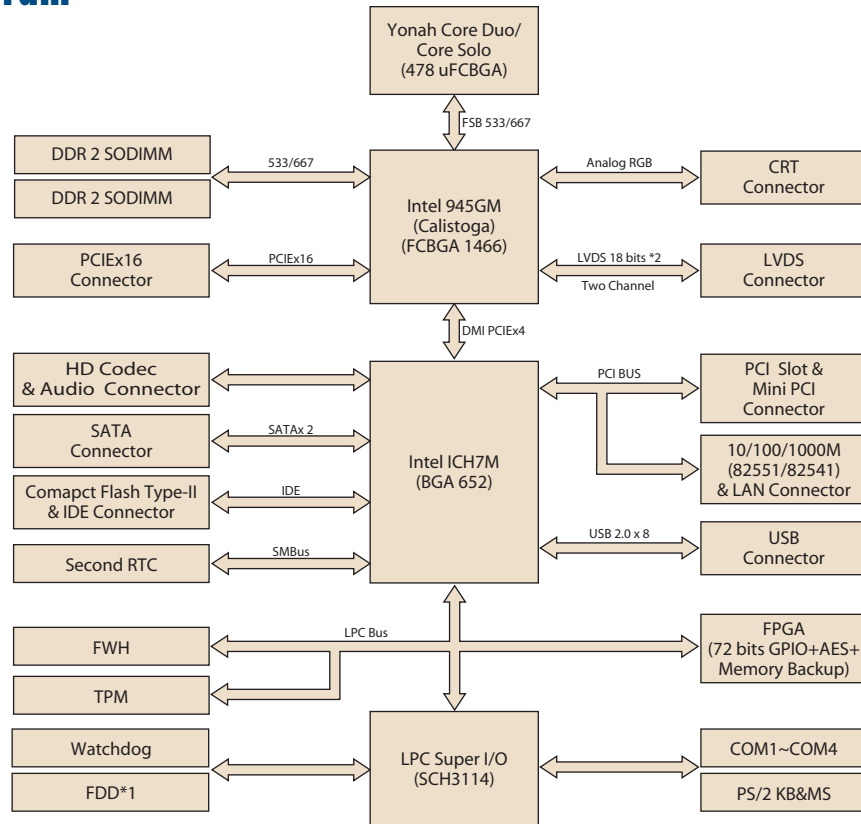
- JAMMA compatible golden finger
- Hardware Advanced Encryption Standard (AES) security engine
- Hardware Random Number Generator (RNG)
- Battery backup SRAM
- TPM support
- 2nd RTC support
- Intel new generation 945GME platform
- Mechanical low profile design with one layer high connector along the coast line



Specifications

General	CPU	Intel Core 2 Duo/Core Duo/Core solo/Celeron M CPU Socket 478 or BGA FSB 533/667 MHz
	Chipset	945GME+ ICH7M
	BIOS	Award 512 Kbit Flash BIOS
	System	2 x DDR2 667 MHz DIMM,
	Memory	Max. 4 GB
	Power	APMI 1.2, support ACPI
	RTC	2nd RTC support
Management	SSD	CompactFlash Type II
	Watchdog Timer	255 Levels, System Reset
	Expansion Interface	1 x PCI, 1 x miniPCI, 1 x PCI-Express x 16 (optional)
	Battery	Lithium 3 V/195 mAH
I/O	I/O interface	1 x EIDE (40-pin UltraDMA 66&100), 1 x Keyboard, 1 x Mouse, RS-232 x 3, 1 x RS-232/422/485, 1 x LPT, 1 x FDD, 2 x SATA-II
	USB	2 x External USB 2.0 , 6 x Internal USB 2.0
	Audio	Supports HD Audio
	GPIO	JAMMA interface compatible up to 64 pins, and 8 pins internally
Ethernet	Chipset	Intel 82551QM or 82541PI (optional)
	Speed	10/100Base-T or 10/100/1000Base-T
	Interface	1 RJ-45 LAN Port
	Standard	IEEE 802.3, IEEE 802.3ab
Display	Chipset	Intel 945GME + ICH7M
	Memory Size	Depends on Intel 945GME
	Dual Independent Display	CRT + LVDS
Data Protection and Safety	SRAM	Battery backup up to 128 KB in 2 banks for each SRAM
	Data Security	TPM, AES
Mechanical and Environment	Dimension	257 x 180 mm
	Weight	0.2 kg (weight of single board)
	Operating Temperature	0 - 60° C (32 - 140° F)
	Operating Humidity	0% - 90% relative humidity, non-condensing
	Power Voltage	ATX Power (details in the formal release)
	Power Consumption	Details in the formal release

Board Diagram



Ordering Information

P/N	LVDS	DVI-D	TV-Out	10/100	Giga	SATA	USB 2.0	COM	GPIO	LPT	CF	miniPIC	PCI Slot
POD-DB09-00A1E	1	-	-	1	option	2	8	4	72	1	1	1	1