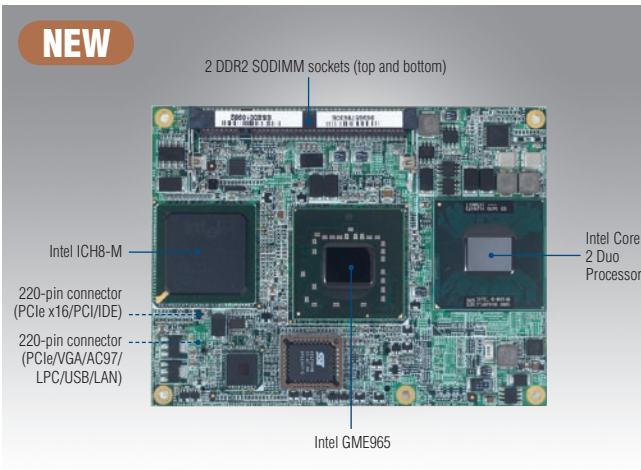


# SOM-5786

## Intel® Core™ 2 Duo GME965 COM-Express CPU Module

**NEW**



### Features

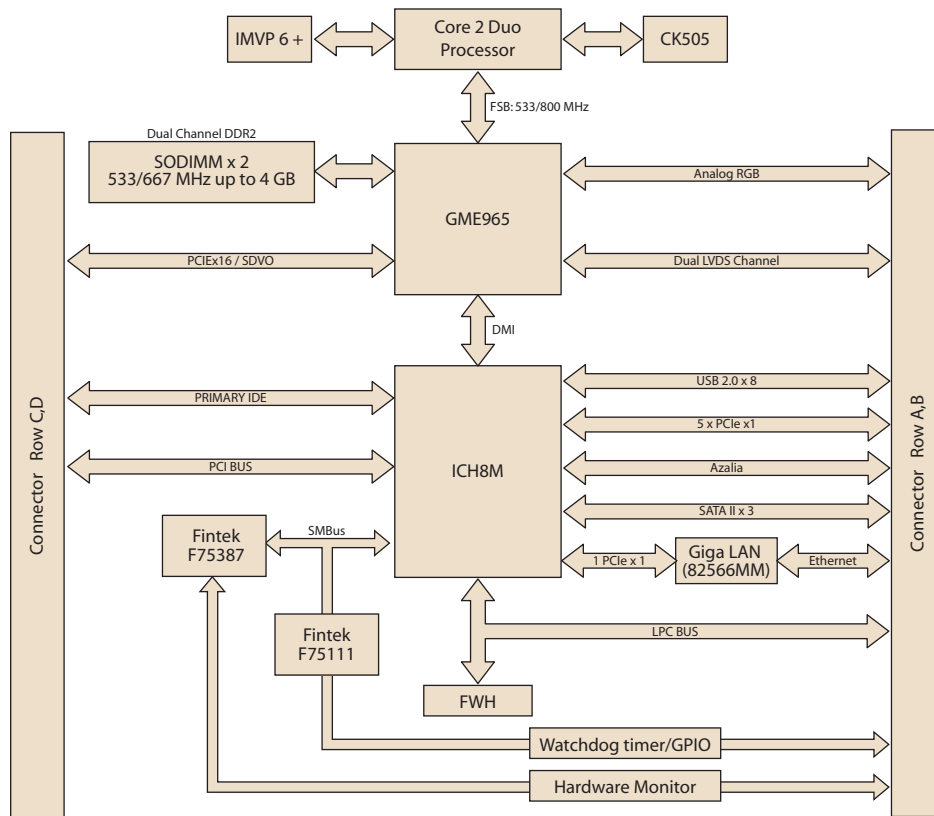
- Embedded Intel® Core™ 2 Duo/Celeron® M processor
- Intel GME965/ICH8-M Chipsets
- Supports dual DDR2 SODIMM up to 4 GB
- Mobile Intel GMA X3100 3D/2D engine
- Display type: 2 x 24-bit LVDS/VGA/2 SDVO or PCIe x16
- Intel 10/100/1000 Mbps LAN
- Expansion: 5 PCIe x1, 4 PCI master, LPC
- 8 x USB 2.0, 3 SATAII, 1 EIDE, 8-bit GPIO



### Specifications

Form Factor	COM-Express, Module Pin-out Type II		
Processor System	CPU	Intel Core 2 Duo Processor	
	Front Side Bus	533/800 MHz	
	System Chipset	Intel GME965 GMCH/ICH8-M	
	BIOS	AWARD 4 Mbit Flash BIOS	
Memory	Technology	DDR2 533/667 MHz	
	Max. Capacity	up to 4 GB	
	Socket	2 x 200-pin SODIMM sockets	
Display	Chipset	Intel GME965	
	VRAM	DVMT 4.0 supports up to 384 MB	
	Graphics Engine	Mobile Intel GMA X3100 3D/2D engine	
	LCD	2 x 24-bit LVDS	
	VGA	up to 2048 x 1536	
	SDVO	2 SDVO Ports	
	Dual Display	CRT + LCD (Note: SDVO function is supported by customized BIOS)	
Ethernet	Chipset	Intel 82566MM Gigabit Ethernet	
	Speed	10/100/1000 Mbps	
WatchDog Timer	256 timer intervals, from 0 to 255 sec or min setup by software, jumperless selection, generates system reset		
Expansion	LPC, PCIe x16, 5 PCIe x1, 4 PCI master		
I/O	PATA	1 x EIDE (UDMA 100)	
	SATA	3 x SATAII	
	USB	8 x USB 2.0	
	Audio	High definition audio interface	
	GPIO	8-bit GPIO	
Power	Power Type	ATX, AT	
	Power Supply Voltage	+12 V and +5 VSB for ATX, +12V for AT	
	Power Consumption (Typical)	Typical: (1 GB DDR2 667)	+12 V @ 1.22 A (Intel Core 2 Duo U7500)
		+12 V @ 1.56 A (Intel Core 2 Duo T7500)	
Power Consumption (Max, test in HCT)	Max: (1 GB DDR2 667)	+12 V @ 1.64 A (Intel Core 2 Duo U7500)	
	+12 V @ 3.03 A (Intel Core 2 Duo T7500)		
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F)	
	Operating Humidity	0% ~ 90% relative humidity, non-condensing	
Mechanical	Dimensions	125 x 95 mm (4.92" x 3.74")	

## Board Diagram



## Ordering Information

Part No.	CPU	L2 Cache	Chipset	LVDS	VGA	SDVO	Giga LAN	HD Audio	PCIe x 16	PCIe x 1	PCI	USB 2.0	SATA	LPC	SMBUS	ATX Power	AT Power	Thermal Solution	Operating Temp.
SOM-5786FG-00A1E	Socket 478	CPU	Intel GME965	2 x 24-bit	Yes	2	1	Yes	1	5	4	8	3 x SATAII	1	1	Yes	Yes	Active	0 - 60° C
SOM-5786FG-S0A1E	Intel Core 2 Duo U7500 1.06 GHz	4 MB	Intel GME965	2 x 24-bit	Yes	2	1	Yes	1	5	4	8	3 x SATAII	1	1	Yes	Yes	Active	0 - 60° C
SOM-5786FG-S6A1E	Intel Core 2 Duo L7500 1.6 GHz	4 MB	Intel GME965	2 x 24-bit	Yes	2	1	Yes	1	5	4	8	3 x SATAII	1	1	Yes	Yes	Active	0 - 60° C

## Development Board

Part No.	Description
SOM-DB5700G-00A2E	Development Board for COM-Express with GLAN

## Optional Accessories

Part No.	Description
1960019182T00B	Semi- Cooler 95 x 125 x 22 mm with 12 V Fan

## Packing List

Part No.	Description	Quantity
	SOM-5786 CPU Module	1
	Utility CD	1
1960005316	Heatspreader (SOM-5786FG-00A1E only)	1
1960005315	Heatspreader (SOM-5786FG-S0A1E and SOM-5786FG-S6A1E)	1