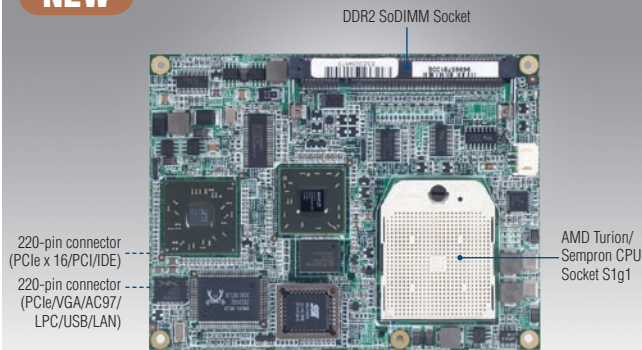


SOM-5781

AMD M690E COM-Express CPU Module

NEW



Features

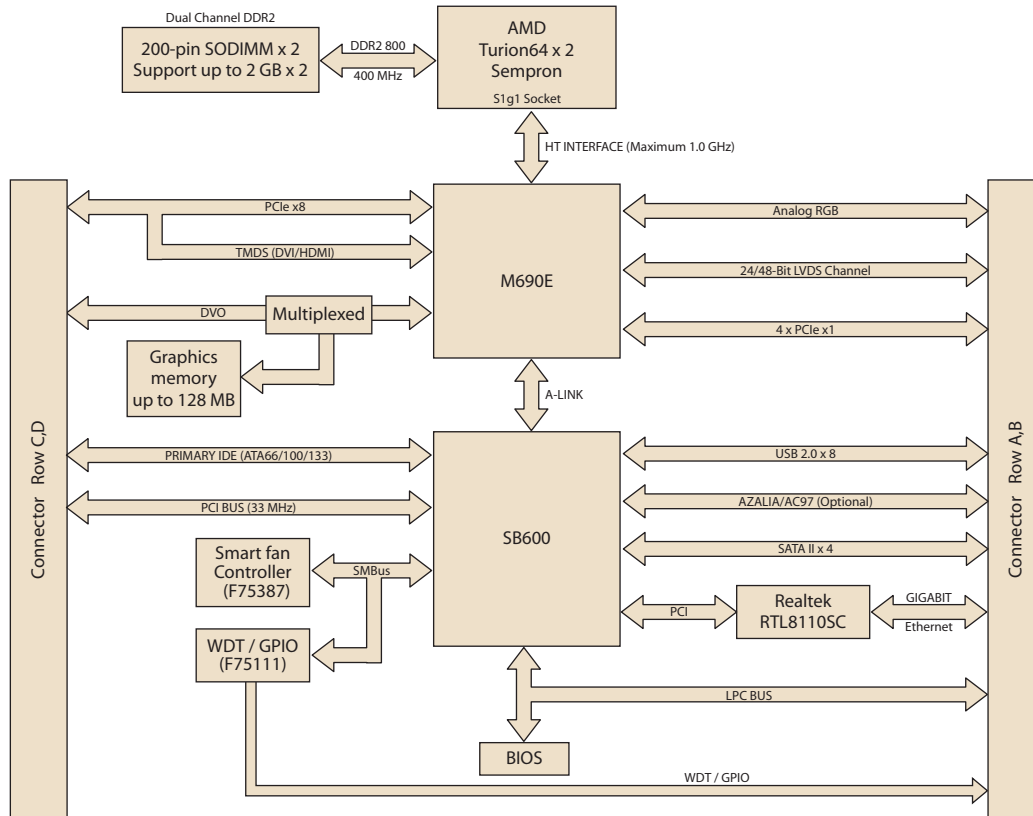
- AMD Turion/Sempron processor
- AMD M690E/SB600 chipsets
- Supports dual DDR2 SODIMM up to 4 GB
- Mobile AMD X1250 3D/2D engine
- Display type: 2 x 24-bit LVDS/ VGA/ HDMI/ DVO/ PCIe x8
- Realtek 10/100/1000 Mbps LAN
- Expansion: 4 PCIe x1, 4 PCI master, LPC
- 8 x USB 2.0, 4 SATAII, 1 EIDE, 8-bit GPIO



Specifications

Form Factor	COM-Express, Module Pin-out Type II		
Processor System	CPU	AMD Turion/Sempron processor	
	Front Side Bus	800 MHz	
	System Chipset	AMD M690E/SB600	
	BIOS	AWARD 4 Mbit Flash BIOS	
Memory	Technology	DDR2 533/667/800 MHz	
	Max. Capacity	up to 4 GB	
	Socket	2 x 200-pin SODIMM sockets	
Display	Chipset	AMD M690E	
	VRAM	Supports up to 256 MB (optional 128 MB side port)	
	Graphics Engine	Mobile AMD X1250 3D/2D engine	
	LCD	2 x 24-bit LVDS	
	VGA	up to 2048 x 1536	
	DVO	1	
	Dual Display	CRT + LCD, LCD + DVI, CRT + DVI	
Ethernet	Chipset	Realtek 8110SC 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 x8, 4 PCIe x1, 4 PCI master		
I/O	PATA	1 x EIDE (UDMA 100)	
	SATA	4 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 @ 1.23 A (AMD Turion TL-62)
		+12 V @ 0.91 A (AMD Sempron 2100+)	
Power Consumption (Max, test in HCT)	Max: (1 GB DDR2 667)	+12 V @ 2.88 A (AMD Turion TL-62)	
	+12 V @ 1.29 A (AMD Sempron 2100+)		
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	Giga LAN	HD Audio	PCIe x 8	PCIe x 1	PCI	USB 2.0	SATA	LPC	SMBUS	ATX Power	AT Power	Thermal Solution	Operating Temp.
SOM-5781FS-00A1E	Socket Sempron 2100+		M690E	2 x 24-bit	Yes	1	Yes	1	4	4	8	4	Yes	Yes	Yes	Yes	Active	0 ~ 60° C
SOM-5781FS-S0A1E		256 KB	M690E	2 x 24-bit	Yes	1	Yes	1	4	4	8	4	Yes	Yes	Yes	Yes	Active	0 ~ 60° C

Development Board

Part No.	Description
SOM-DB5700G-00A2E	Development Board for Giga LAN COM Module

Packing List

Part No.	Description	Quantity
	SOM-5781 CPU Module	1
	Utility CD	1
1960023313T00B	Heatspreader	1

Optional Accessories

Part No.	Description
1960023996N00B	Semi-Heatsink
1960019182T00B	Semi-Cooler 95 x 125 x 22 mm with 12 V Fan