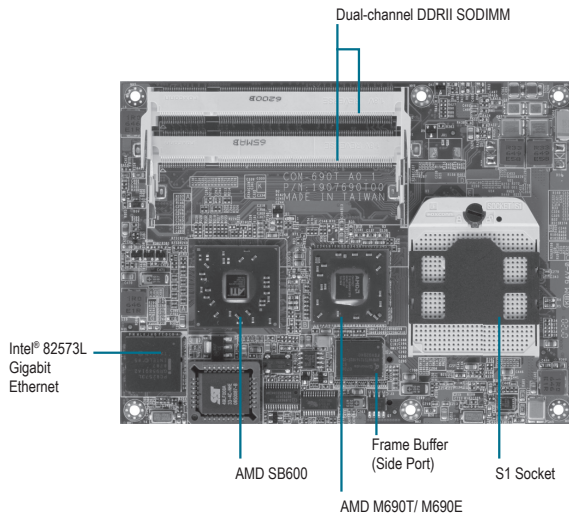


# COM-690T/ COM-690E

## COM Express CPU Module with AMD Turion™/ Sempron™ (S1 Socket) Processors

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COM Express CPU Modules



### Features

- AMD Turion™/ Sempron™ (S1 Socket) Processors
- AMD M690T/E + SB600
- Dual-channel DDRII 667/800 Memory, Max. 4GB
- Gigabit Ethernet
- CRT, Up to 24-bit Dual-channel LVDS LCD, TV (TV Function Only for COM-690T)
- High Definition Audio Interface
- PATA x 1, SATA II x 4
- USB 2.0 x 8
- PCI x 4, PCI-Express [x8] x 1, PCI-Express [x1] x 3
- Wide DC Input Range, +8.5V to +19V
- COM Express Basic Module Pin-out Type II



### Specifications

System	
Form Factor	COM Express basic module, Pin-out Type II
Processor	AMD Turion™/ Sempron™ (S1 socket) processors
System Memory	200-pin DDRII SODIMM x 2, Max. 4GB (DDRII 667/800), supports dual-channel function
Chipset	AMD M690T/E + SB600
I/O Chipset	SB600
Ethernet	Intel® 82573L, 10/100/1000Base-TX
TPM	v1.2, Infineon SLB9635TT1.2
BIOS	Award BIOS v8.0 PLCC type, 1MB ROM
EEPROM	Atmel® AT24C02, save BIOS and configuration data
Wake on LAN	Yes
Watchdog Timer	Fintek F75111
H/W Status Monitoring	Supports CPU temperature monitoring
Expansion Interface	PCI-Express [x8] x 1 (Shared with HDMI/ DVI)
	PCI-Express [x1] x 3
	32-bit PCI x 4
	LPC bus x 1
	SMBus x 1 I2C x 1
Power Requirement	Wide DC input range, +8.5V to +19V 2-pin wafer for RTC battery
Power Consumption (Typical)	AMD TL-52 1.6GHz, DDRII 667 2GB 3.86A@+12V, 0.7A@+5V
Board Size	4.92"(L) x 3.75"(W) (125mm x 95mm)
Gross Weight	0.66 lb (0.3 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	90,000
Display	
Supports CRT/LCD, CRT/DVI, LCD/DVI, LCD/TV, TV/DVI simultaneous/ dual view displays	
Chipset	AMD M690T/E integrated
Memory	Shared system memory up to 1024MB
Resolution	Up to 2560 x 1440 @ 75Hz for CRT Up to 2048 x 1536 (QXGA) for LCD
LCD Interface	Up to 24-bit dual-channel LVDS
Side Port	16-bit memory interface x 1, supports up to 128MB DDRII 800 memory (TF-COM-690T-A10-01 and TF-COM-690E-A10-01)
HDMI	Supports HDMI x 1 (Shared with PCI Express [x8])
DVI	Supports DVI x 1 (Shared with PCI Express [x8])
TV-out	AMD M690T integrated, supports NTSC/ PAL/ HDTV HDTV supports: 480i/ 480p/ 576i/ 576p/ 720p/ 1080i Supports Composite Video, S-Video, Component Video (YPbPr) on carrier board

I/O	
Storage	PATA x 1 (Two devices) SATA II x 4
USB	USB 2.0 x 8
Audio	High definition audio
GPIO	Up to 4 in or 4 out

### Packing List

- M2.5 Screw x 5
- Utility DVD
- COM-690T or COM-690E

### Ordering Information

- **TF-COM-690T-A10**  
COM Express CPU Module, S1 Socket, M690T, TV, Dual DDRII, Gigabit Ethernet, USB 2.0, Rev. A1.0
- **TF-COM-690T-A10-01**  
COM Express CPU Module, S1 Socket, M690T, TV, Side Port (128MB), Dual DDRII, Gigabit Ethernet, USB 2.0, TPM, Rev. A1.0
- **TF-COM-690E-A10**  
COM Express CPU Module, S1 Socket, M690E, Dual DDRII, Gigabit Ethernet, USB 2.0, Rev. A1.0
- **TF-COM-690E-A10-01**  
COM Express CPU Module, S1 Socket, M690E, Side Port (128MB), Dual DDRII, Gigabit Ethernet, USB 2.0, TPM, Rev. A1.0

### Optional Accessories

- **TF-ECB-916M-A10-01**  
COM Express Carrier Board, microATX, Dual Gigabit Ethernet, 7.1CH Audio, 4COM, USB, PCI-Express, AT/ATX, Rev. A1.0
- **TF-PER-A053**  
CPU Cooler, For COM-690T/COM-690E, Socket-type CPU, 12V Fan