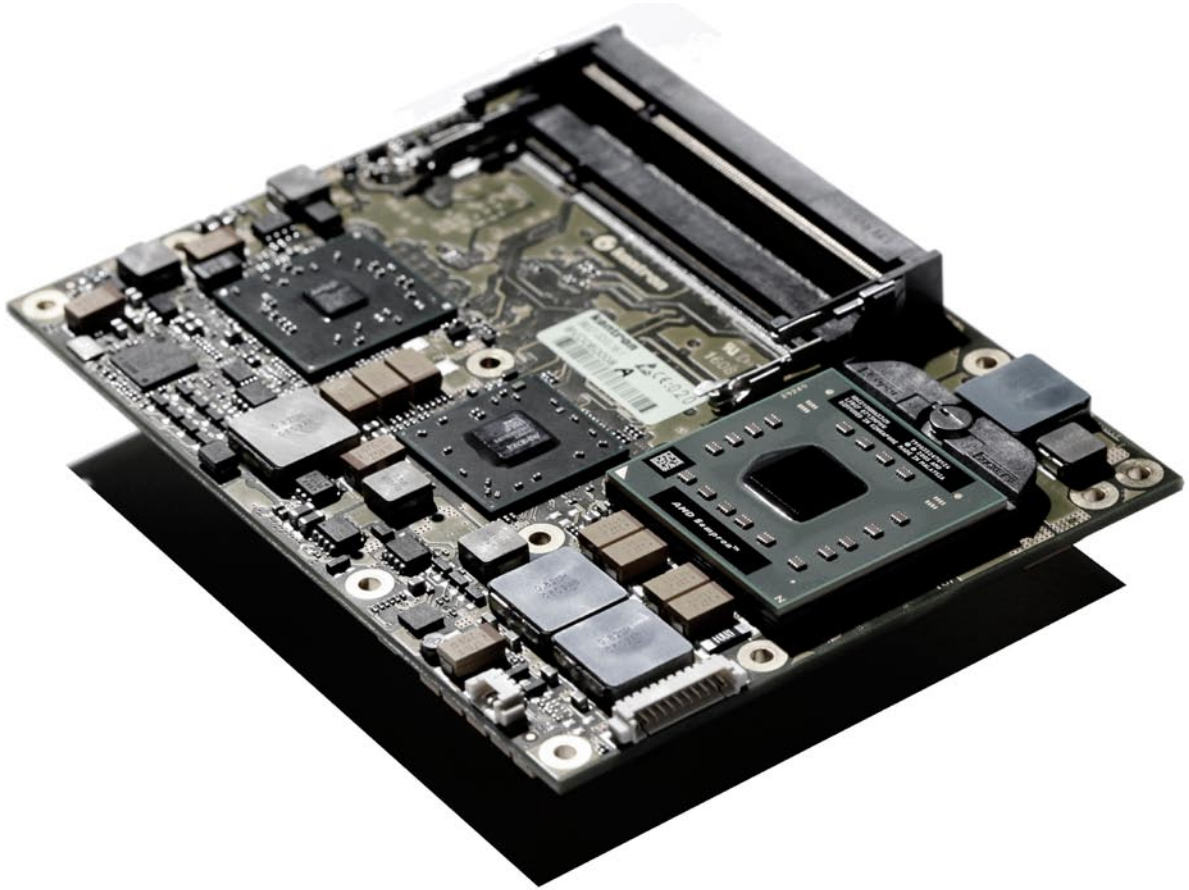


▶ ETXexpress[®]-690

Graphics power!



- ▶ With AMD Turion™ or Mobile AMD Sempron™ processor
- ▶ 4x SerialATA 300 with RAID
- ▶ ATI Radeon™ X1200 with up to 1 GB graphics memory
- ▶ Up to 4 GB system memory
- ▶ TMDS (DVI/HDMI) multiplexed with PEG

➤ Product Overview

ETXexpress®-690 is based on the module concept of the open standard COM Express™ (by PICMG®). The new ETXexpress®-690 module is based on the AMD Turion™ or Mobile AMD Sempron™ processor as well as the AMD M690E and AMD SB600 chipset. The M690E chip is validated for Windows Vista®. PCI Express is the primary data path for upcoming x86 based systems. PCI components such as PCI plug-in cards can still be supported with the PCI 2.3 32 Bit Interface.

Gigabit Ethernet based on PCI Express for high connectivity and 8x USB 2.0 provides fast interfaces for external peripherals. COM Express™ modules also will provide the following interfaces that are always located in the same physical position on each board, thus guaranteeing scalability between modules: PCI Express, PCI, USB, 4x SerialATA, ParallelATA, LVDS as well as an ACPI (Advanced Configuration and Power Interface) for optimized power management. Ten mounting holes on the board provide secure mounting to allow the module increased shock and vibration resistance.

➤ Technical Information

Processor	AMD Turion™ 64 X2 TL-52 with 1,6GHz Dual Core, socket CPU Mobile AMD Sempron™ 2100+ with 1,0GHz Single Core, socket CPU
Chipset	AMD M690E, SB600
Memory	Up to 4 GB DDR2 SO-DIMM (667/800) dual channel
Hard Disk	4x SerialATA 300 (AHCI; RAID 0, 1, 10), 1x PATA
USB	8x USB 2.0
PCI	PCI 2.3, 32 bit / 33 MHz PCI bus
PCI Express	3 PCI Express x1, 1x PEG x8
Ethernet	10/100/1000 MBit Intel® 82575L
Sound	High Definition Audio or AC97 support
Video Controller	Integrated ATI Radeon™ 3D Graphics Core X1200 Supports a TMDS interface enabling DVI or HDMI shared with PEG DirectX® 9.0/SM2.0 and shared memory up to 1024 MB Dual Independent Display Support

LVDS and CRT Resolutions	LVDS up to QXGA (2048x1536 @ 60 Hz), CRT up to 2560x1440 @ 75Hz
LVDS Panel Support	Single and Dual Channel 18/24 bit
Security Feature	TPM 1.2 compliant (optional)
Other Features	Watchdog Timer, Suspend Modes (S1, S3, S4, S5), AMD PowerNow!™, AMD Cool'n'Quiet™
Operating Systems	Windows Vista®, Windows® XP, Windows® XP Embedded, Windows® CE, Linux and others
Form Factor / Pin-out Type	125 x 95 mm Fully COM Express™ Type 2 compliant
Power Consumption	typ. Idle 12,5W @ AMD Turion™ 64 X2 TL-52
Temperature (*)	Operation: 0° to 60°C Storage: -10° to 85°C
Humidity	Operation: 10% to 90% Storage: 5% to 95% (non condensing)

(*) Ask about extended temperature ranges

➤ Ordering Information

Article	Part.-No.	Description
ETXexpress®-690 1,0GHz	38007-0000-10-1	ETXexpress®-690, COM Express™ Type2 Basic module with Mobile AMD Sempron™ Processor 2100+ 1.0GHz, socket CPU and AMD® M690E, GBit LAN, dual channel DDR2 SO-DIMM
ETXexpress®-690 1,6GHz	38007-0000-16-0	ETXexpress®-690, COM Express™ Type2 Basic module with AMD Turion™ 64 X2 Mobile Processor TL-52 1,6GHz, socket CPU and AMD® M690E, GBit LAN, dual channel DDR2 SO-DIMM
HSP-ETXexpress®-690 threaded	38007-0000-99-2	Heatspreader ETXexpress®-690, threaded stand off
HSP-ETXexpress®-690 through	38007-0000-99-3	Heatspreader ETXexpress®-690, through hole stand off

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