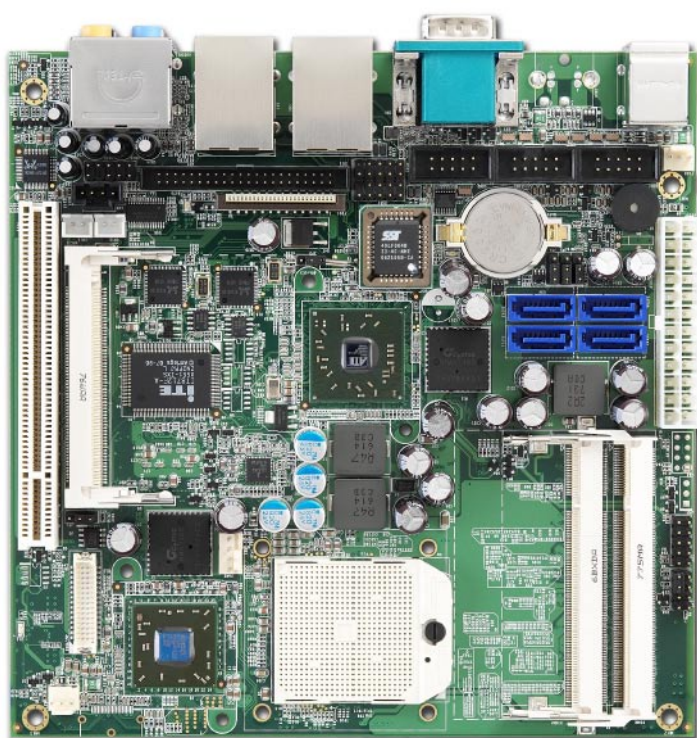


KEMX-4010

Industrial Motherboard in Mini-ITX form factor
with AMD M690E/SB600



- AMD Turion™ 64 X2, Mobile Sempron™ – Socket S1
- AMD M690E/SB600 chipset
- DDR2-667 up to 4GB, 2x SODIMM
- ATI Radeon™ X1250 graphics core
- 24-bit dual-channel LVDS, HDMI
- ATA-133 & SATA 3 Gb/s, 1x PCI slot, 1x Mini PCI slot
- 2x PCI-e GbE, 8x USB 2.0, 4x RS-232, HD Audio
- Watchdog Timer, Hardware Monitor, TPM 1.2

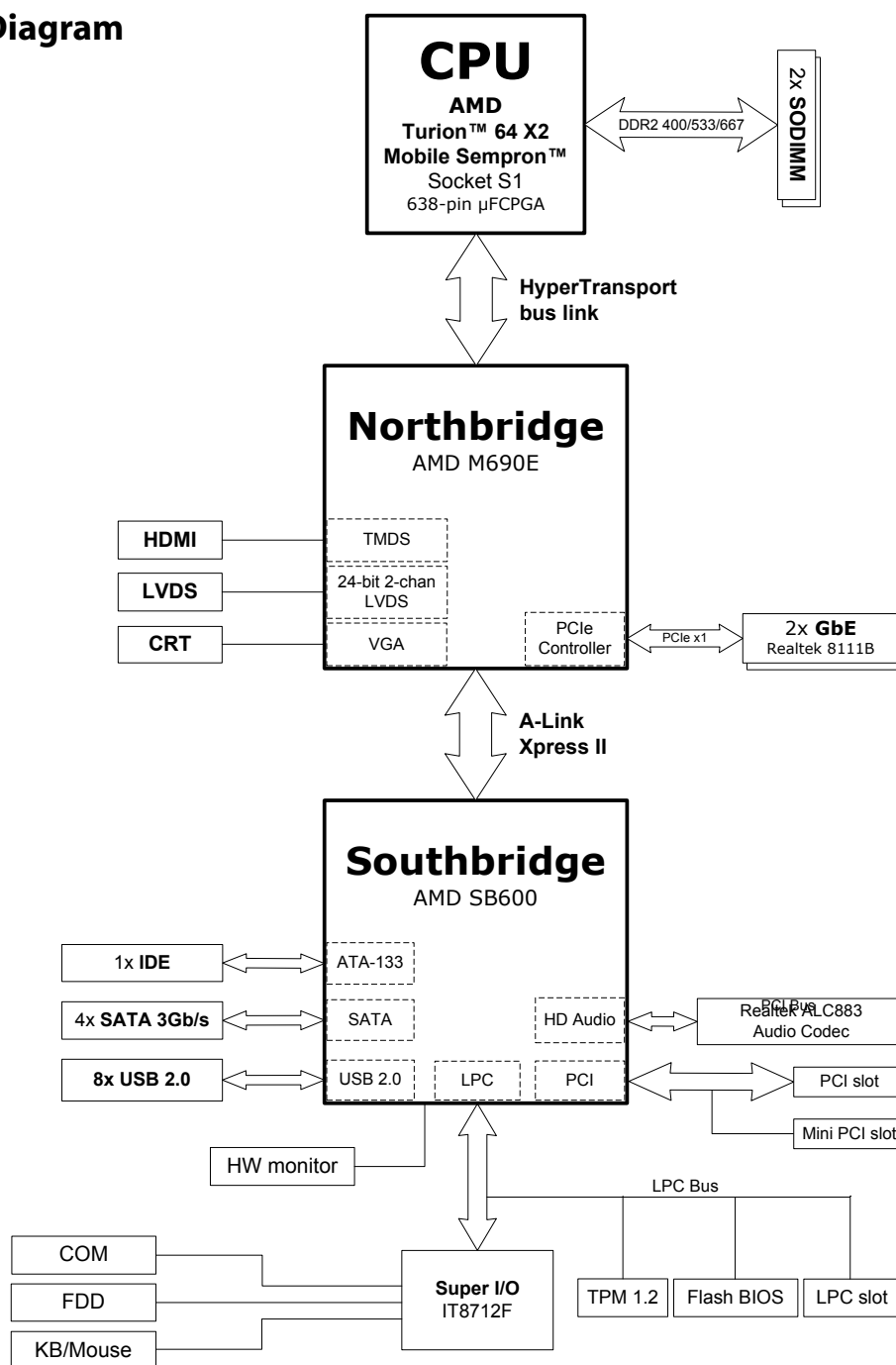
Product Overview

The new KEMX-4010 is a Mini-ITX form factor industrial motherboard combining the high performance of the AMD Turion™ 64 x2, Mobile Sempron™ (Socket S1) with the high integration of the AMD M690E/SB600 chipset. Featured are a HyperTransport Technology, DDR2-667 SODIMM up to 4GB, ATI Radeon™ X1250 graphics core supporting Dual Display, 24-bit dual-channel LVDS, HDMI, dual Gigabit Ethernet,

ATA 133 & SATA 3 Gb/s, floppy drive, Mini PCI, 8x USB v2.0, 4x serial ports, HD audio, and keyboard/mouse.

The KEMX-4010 is a compact, high performance industrial motherboard that is ideal for multimedia, gaming, mobile PC, and thin client applications.

Block Diagram

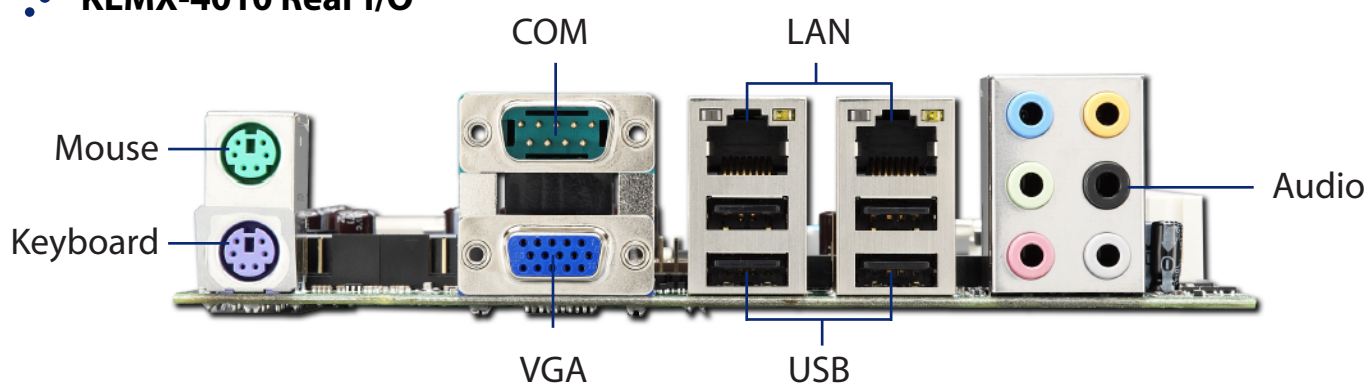


Technical Information

CPU Support	AMD Turion™ 64, Mobile Sempron™ (Socket S1)
Chipset	AMD M690E + SB600
Memory	2x DDR2 400/533/667 SO-DIMM Socket, up to 4GB
BIOS	Award PnP 8Mb Flash
Display	ATI Radeon™ X1250 graphics core, 2048x1536 @ 32bpp, supports Dual Display 24-bit dual-channel LVDS up to UXGA 1x HDMI (480p, 720p, 1080i) or 1x DVI (via HDMI adapter)
LAN	2x RJ-45, Gigabit Ethernet (Realtek 8111B)
Audio	HD Audio Codec, supports Line-in, Line-out & Microphone (Realtek ALC883) Speak-out with AMP. 2x 2W
Peripheral Support	1x IDE ATA-133 4x SATA 3Gb/s 4x COMs (RS-232) 8x USB 2.0 1x Internal floppy port 1x PS/2 Keyboard connector 1x PS/2 Mouse connector

TPM	TPM 1.2
Power Connector	ATX-24P
Expansion	1x PCI slot, 1x Mini PCI
Watchdog Timer	1-255 step, can be set with software on Super I/O
Hardware Monitor	Operating voltage, CPU temperature and fan speed
Dimensions	Mini-ITX (170 x 170 mm)
Environmental Factors	Operation Temp: 0°C - 60°C Storage Temp.: -10°C - 85°C Humidity: 0% - 90%
Certifications	CE, FCC Class A

KEMX-4010 Rear I/O



Ordering Information

Article	Part Number	Description
KEMX-4010	BMMX4010-001000T	Industrial Motherboard in Mini-ITX form factor with AMD M690E/SB600, LVDS/HDMI , dual GbE, SATA 3Gb/s, HD Audio