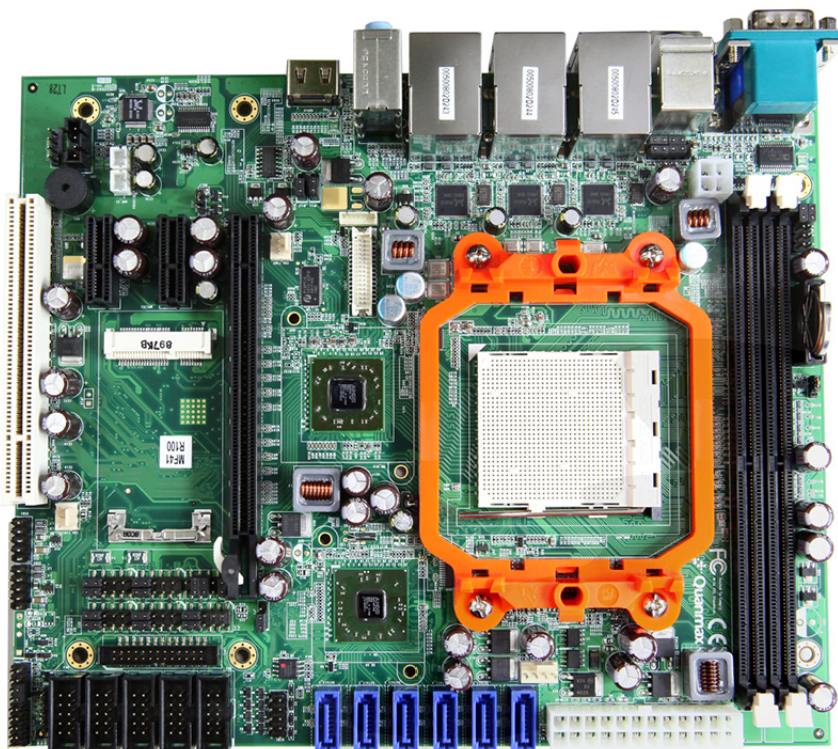


KEMF-4010

FlexATX form factor Embedded Motherboard
with AMD® 780E + SB710 chipset



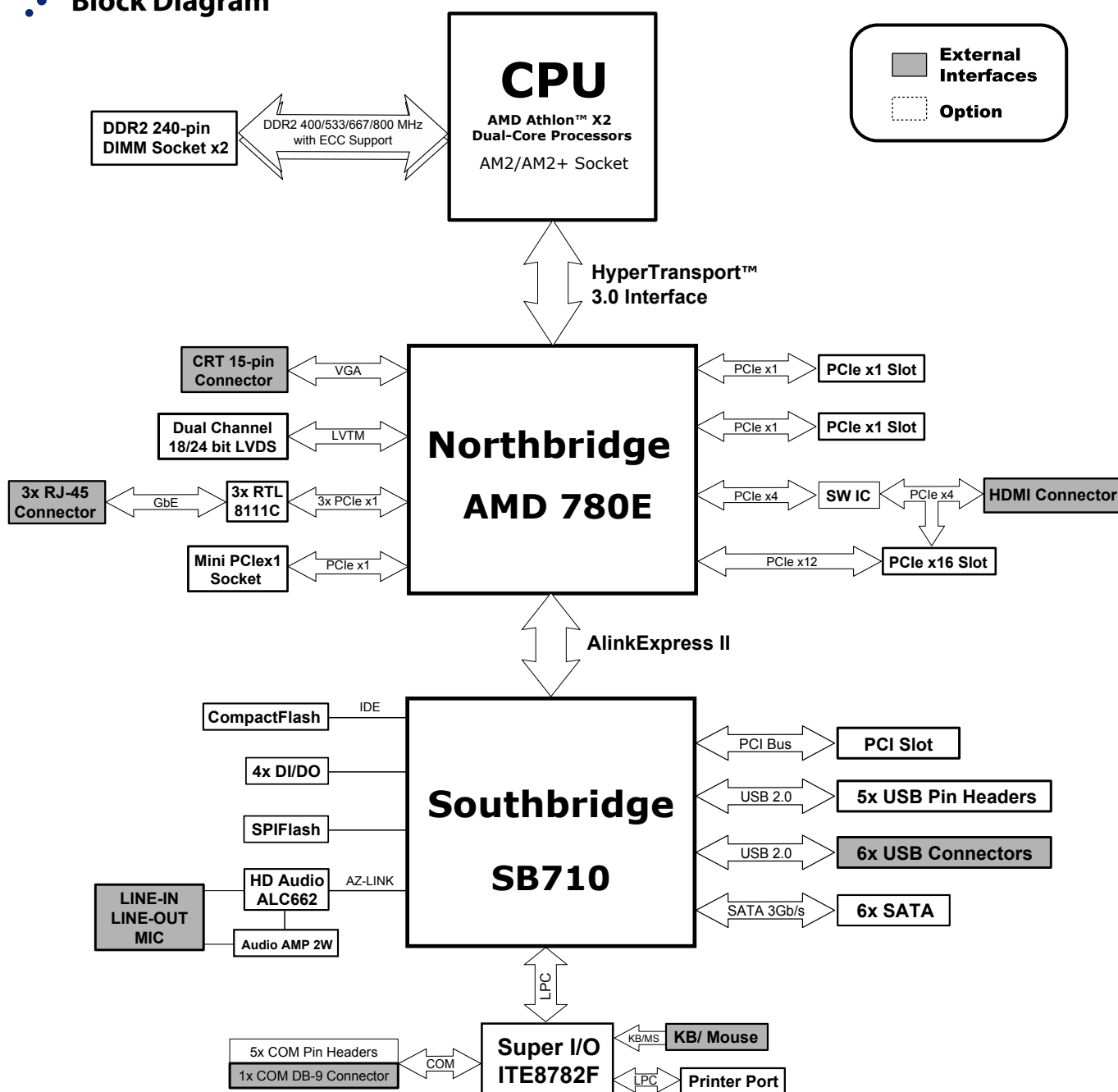
- Supports AMD Athlon™ X2 Dual-Core Processor
- Integrated ATI Radeon™ HD 3200 graphics
- Dual Channel DDR2 DIMM 400/533/667/800MHz, up to 8 GB
- 3x GbE, 10x USB 2.0, 6x SATA 3Gb/s, CF Type II, HD Audio
- 1x PCIe x16 slot, 2x PCIe x1 slots, 1x Mini PCIe slot, 1x PCI slot
- Hardware Monitor, Watchdog Timer

Product Overview

The KEMF-4010 is a FlexATX embedded motherboard that built with the fastest onboard graphics - AMD® 780E and supporting AMD Athlon™ X2 dual-core processor and DDR2 DIMM up to 8GB. This embedded board offers the latest video performance and I/O interfaces at an extremely attractive price/performance ratio and measures 229 x 191mm, a 42 percent space reduction over ATX boards.

The KEMF-4010 features HDMI, 18/24-bit dual channel LVDS panel support, SATA 3 Gb/s, RS-232/422/485 serial port, DI/DO, Gigabit Ethernet, USB 2.0, keyboard/mouse, and HD audio. Mini-PCle, PCIe x1, PCIe x16 and PCI support provides expansion capability for your diversify applications.

Block Diagram

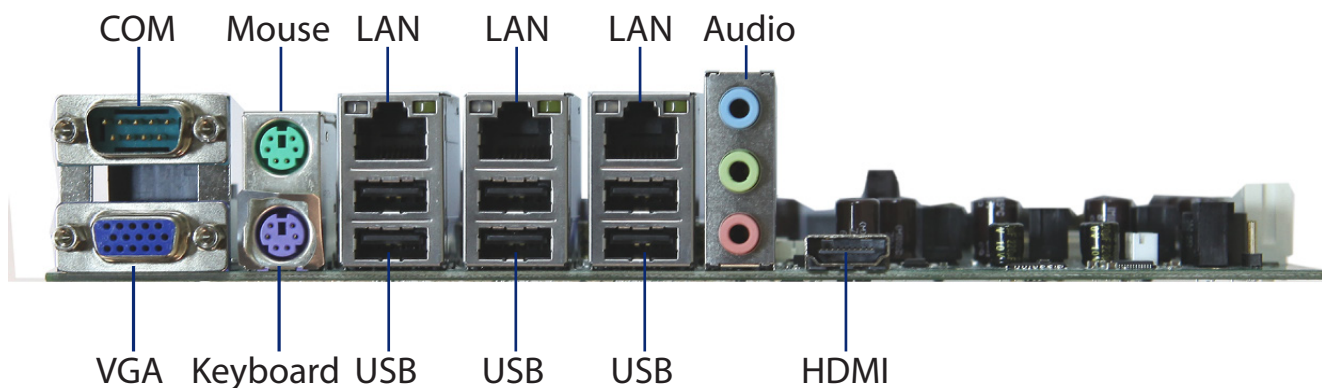


Technical Information

CPU Support	AMD Athlon™ Single and Dual-Core Processors
Chipset	AMD780E + SB710
Memory	2x DDR2 400/533/667/800 DIMM Socket, up to 8 GB
BIOS	AMI PnP 8Mb Flash
Display	Integrated ATI Radeon™ HD 3200 graphics Dual Independent Display Support Single/ Dual channel 18/24 bit LVDS, with optional LVDS to DVI-D cable 1x HDMI 1x VGA
LAN	3x RJ-45, Gigabit Ethernet (Realtek 8111C)
Audio	Realtek HD audio codec onboard 2W Amplifier support One audio stack connector for Audio-Out, Audio-In and Mic-In One wafer connector for CD-In One 1x4 pin 2.54mm pitch header for S/PDIF
Peripheral Support	1x CompactFlash socket 6x SATA 3Gb/s (RAID 0/1/10 support) 10x USB 2.0 6x COMs with Power Selection (1x RS232/422/485, 5x RS-232) 1x IrDA support from remote control via COM5 4x DI/DOs with Power Selection 1x PS/2 Keyboard connector 1x PS/2 Mouse connector 1x Parallel port

TPM	TPM 1.2
Power Connector	ATX-24P + ATX-4P AT/ATX support
Expansion	1x PCI slot 2x PCIe x1 slots 1x PCIe x16 slot 1x Mini PCIe socket
Watchdog Timer	1-255 step, can be set with software on Super I/O
Hardware Monitor	Operating voltage and power failure CPU and system temperature CPU and system fan speed
Dimensions	Flex ATX (229 x 191 mm)
Environmental Factors	Operation Temp: 0°C - 60°C Storage Temp.: -10°C - 85°C Humidity: 0% - 90%
Certifications	CE, FCC Class A

KEMF-4010 Rear I/O



Ordering Information

Article	Part No.	Description
KEMF-4010	BMMF4010-001000T	Flex ATX M/B with AMD780E/SB710 chipset, LVDS/DVI/HDMI/VGA, 3xGbEs, 6xCOMs, 6xSATAs, Audio w/z Amplifier support

Accessories

Article	Part No.	Description
SATA cable *	0C501ATA0746000L	SATA cable , 7-pin connector with lock, L=46cm
Shield I/O *	0F0000000000020L	Shield I/O for KEMF-4010
COM port cable	0C5031002500020L	COM Port cable, pitch 2.54mm 10P, D-SUB 9P, L=250mm, with bracket, 180degree
LPT port cable	0C5020002000010L	LPT CABLE 20CM , 2*13p 180degree , pitch=2.00 to DB-25
DVI cable	0C5029003000070L	DVI cable, 30-pin pitch=1.25mm connector to DVI connector with bracket, L=30cm
USB cable	0C502USB0201010L	USB cable, 2.54mm 10-pin to 2x USB connectors with bracket, L=30cm
SPDIF cable	0C5021002000020L	SPIDF CABLE pitch:2.54 1x2P to RCA connector ,L=20CM ,180 degree

* The item has been included in standard package.