

KEEX-4020

Industrial 3.5" Embedded SBC with Intel® 945GME/ICH7-M



- Intel® Core 2 Duo support – 478-pin μ FC-PGA (Socket-M)
- Intel® 945GME/ICH7M chipset
- 1x SO-DIMM DDR2 400/533/667 up to 2GB
- Intel® GMA 950, 18-bit dual-channel LVDS up to UXGA
- 1x SATA, 1x CompactFlash Type II
- 1x Fast Ethernet, 6x USB 2.0, 2x RS232, HD/AC'97 Audio Interface
- 1x PCIe x4 slot (w/ 4x PCIe x1 speed)
- Watchdog Timer, Hardware Monitor, TPM 1.2

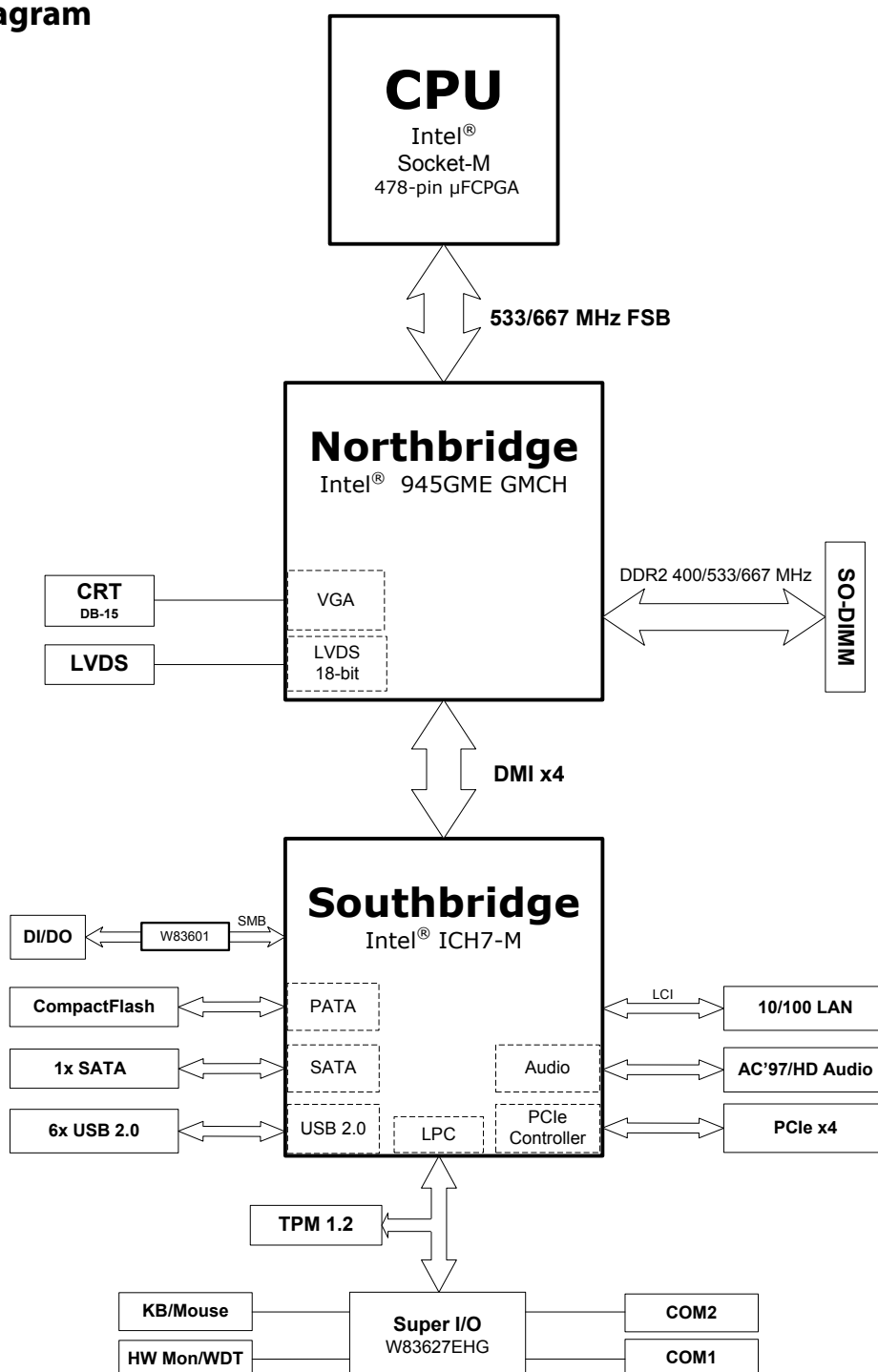
Product Overview

The new KEEX-4020 is an industrial 3.5" Embedded SBC (single board computer) combining the high performance of the Intel® Core™2 Duo Processor (478 µFC-PGA package) with the high integration of the Intel® 945GME chipset and I/O Controller Hub ICH7-M. Featured are a 667MHz Front Side Bus, DDR2 400/533/667 up to 2GB, Intel® GMA 950 graphics supporting Dual Display, 18-bit dual-channel LVDS, Fast

Ethernet, SATA with onboard power connector, 6x USB v2.0, 2x serial ports, HD audio, and keyboard/mouse.

The KEEX-4020 is a compact, high performance embedded SBC that is ideal for Panel PC, gaming, mobile PC, and thin client applications.

Block Diagram

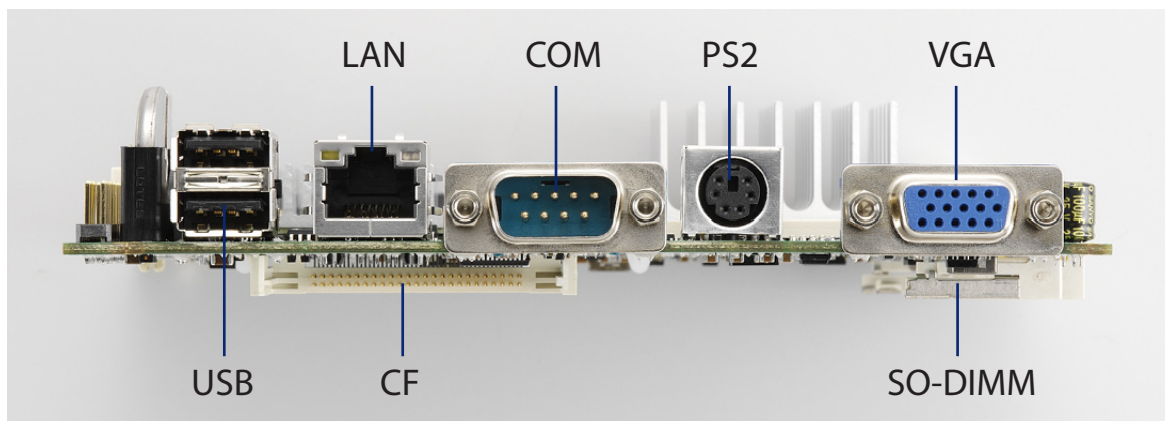


Technical Information

CPU Support	Intel® Core 2 Duo (Socket-M)
Chipset	Intel® 945GME + ICH7-M
Memory	1x DDR2 400/533 SO-DIMM Socket, up to 2GB
BIOS	Award PnP 4Mb Flash
Display	Intel® GMA 950, 2048x1536 @ 75Hz supports Dual Display 18-bit dual-channel LVDS up to UXGA 1x VGA
Peripheral Support	1x SATA with onboard power connector 1x CompactFlash socket 6x USB 2.0 2x COMs (2x RS-232) 4x DI/DO 1x Mini-Din PS/2 KB/ MS
TPM	TPM 1.2

LAN	1x RJ-45, Fast Ethernet (Intel® 82562GT)
Audio	HD/ AC'97 Audio via optional daughter board
Power Connector	ATX-4P
Expansion	1x PCIe x4 slot (w/ 4x PCIe x1 speed)
Watchdog Timer	1-255 step, can be set with software on Super I/O
Hardware Monitor	Operating voltage, CPU temperature and fan speed
Dimensions	3.5" Embedded Board (102 x 146 mm)
Environmental Factors	Operation Temp: 0°C - 60°C Storage Temp.: -10°C - 85°C Humidity: 0% - 90%
Certifications	CE, FCC Class A

KEEX-4020 Rear I/O



Ordering Information

Article	Part No.	Description
KEEX-4020	B3EX4020-001000T	3.5" Industrial SBC with Intel® 945GME/ICH7M chipset, Fast Ethernet, 18-bit LVDS, SATA, CompactFlash, PCIe x4 expansion and USB 2.0