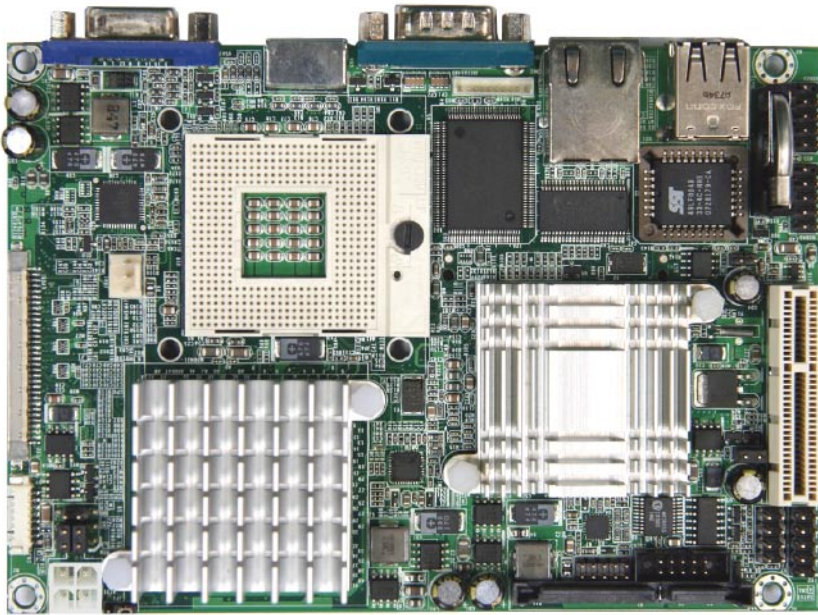


KEEX-4020

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 3 Gb/s, 1x CompactFlash Type II
- 1x Fast Ethernet, 6x USB 2.0, 2x RS232, HD/AC'97 Audio
- 1x PCIe x4 slot
- Watchdog Timer, Hardware Monitor, TPM 1.2

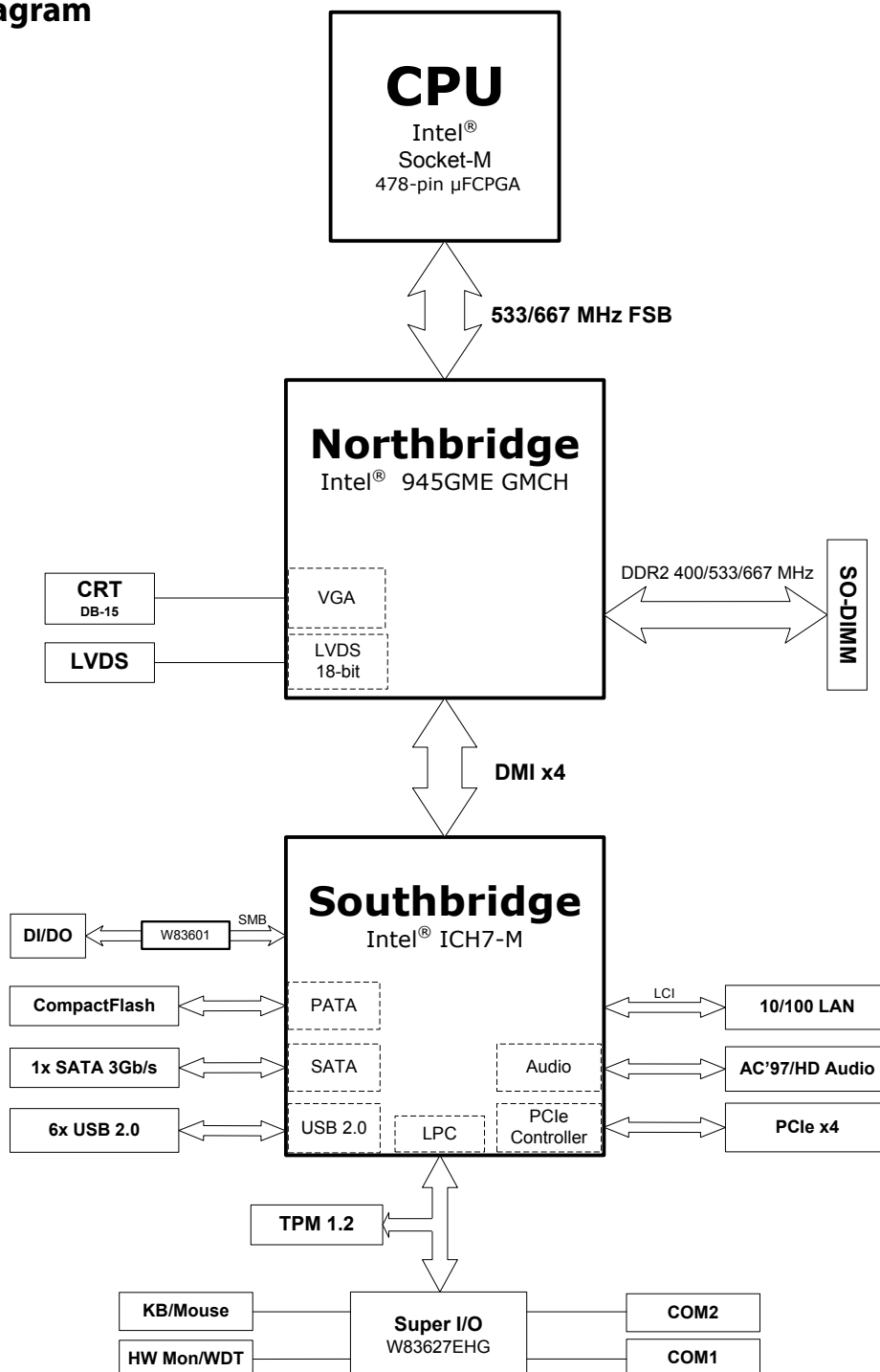
Product Overview

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 3 Gb/s 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



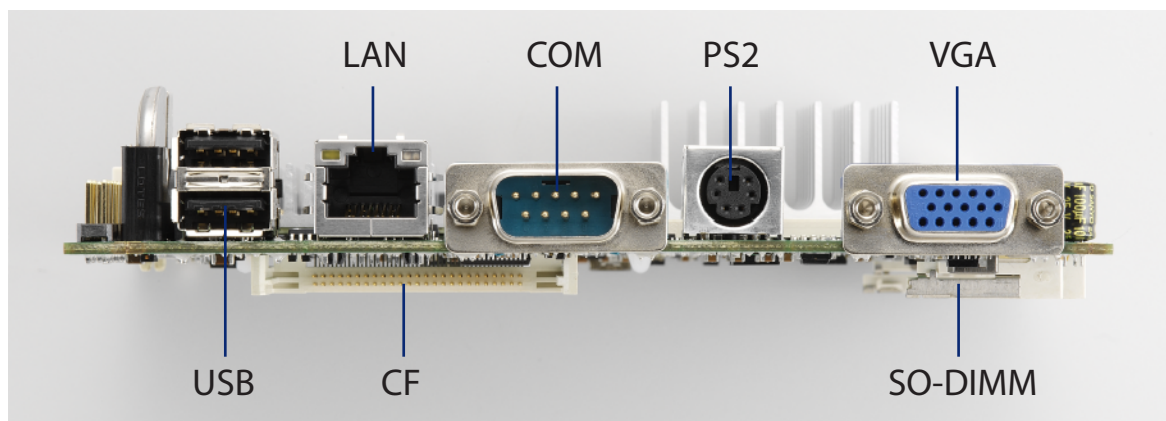
Technical Information

Form Factor	3.5" Embedded SBC 102mm x 146mm
Processor	Intel® Core 2 Duo support – 478-pin µFC-PGA (Socket-M)
Memory	1x 200-pin SO-DIMM DDR2 400/533/667 up to 2GB
Chipset	Intel® 945GME Graphic Memory Controller Hub (GMCH) Intel® I/O Controller Hub 7 (ICH7-M)
Ethernet	10/100Base-T Ethernet, RJ-45 (i82562GT via LCI)
VGA	Intel® Graphics Media Accelerator 950, 2048x1536 @ 75Hz supports Dual Display
LVDS	18-bit dual-channel LVDS up to UXGA
Peripheral Support	1x SATA 3Gb/s w/ onboard power connector 2x COM ports RS-232 (1x rear bracket, 1x internal) 6x USB 2.0 ports (2x on rear bracket, 4x internal) 1x PCIe x4 slot, CompactFlash Type II AC'97/HD audio codec 8-bit DIO (W83601) Mini-DIN PS/2 Keyboard and Mouse connector

Power	ATX-4P 12V input power connector
BIOS	Award PnP 4Mb Flash
Watchdog Timer	1-255 step, can be set with software on Super I/O
Hardware Monitor	Hardware monitor for supply voltages, CPU temperature and fan
TPM	TPM 1.2 – Infineon SLB9635
Operation Temp.	0°C – 60°C
Storage Temp.	-10°C – 85°C
Humidity	0% – 90%
Certifications	CE, FCC Class A

Product 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



KEEX-4020 Rear IO