

KEEX-4030

Intel® Embedded Compact Extended Form Factor
with Intel® GM45/ ICH9-M



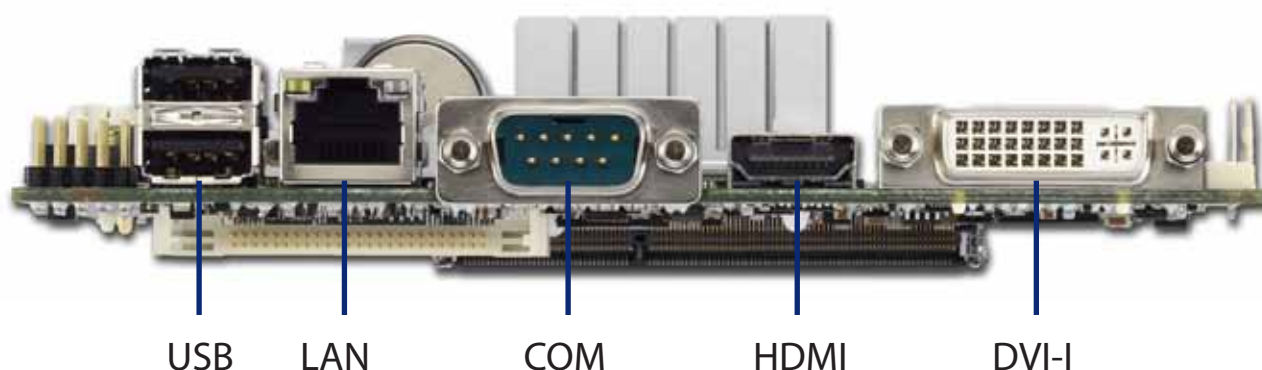
- Intel® Core 2 Duo 45nm Penryn and Quad-Core CPU support
- Intel® GM45/ICH9-M chipset
- 1x SO-DIMM DDR3 800/1066 up to 4GB
- Intel® Graphics Media Accelerator 4500MHD supports
- LVDS/DVI/HDMI, 1x PCIe x4 slot (w/ 4x PCIe x1 speed)
- 2x SATA 3 Gb/s, 1x CompactFlash Type II
- 1x GbE, 6x USB 2.0, HD Audio Interface, 4x DI/DO, 2x COM
- Watchdog Timer, Hardware Monitor, TPM 1.2

Technical Information

CPU Support	Intel® 45 nm Penryn-based Core 2 Duo and Quad-Core processors
Chipset	Intel® GM45 +ICH9M (KEEX-4030) Intel® GM45 +ICH9ME (KEEX-4031)
Memory	1x DDR3 800/1066 SO-DIMM, total up to 4 GB
BIOS	AMI Plug & Play BIOS – SPI Flash ROM
Display	Intel® Graphics Media Accelerator 4500MHD 18/24-bit Dual channel LVDS 1x HDMI, 1x DVI-I
Peripheral Support	2x SATA 3Gb/s, RAID 1/0 (one with onboard power connector) 1x CompactFlash socket 6x USB 2.0 2x COMs (1x RS-232/422/485, 1x RS-232) 4x DI/DO 1x KB/ MS Box Header 1x LPC Box Header
TPM	TPM 1.2

LAN	1x RJ-45, Gigabit Ethernet (Intel® 82567)
Audio	HD Audio via optional daughter board
Power Connector	ATX-4P 12V input
Expansion	1x PCIe x4 slot (w/ 4x PCIe x1 speed)
Watchdog Timer	1-255 step
Hardware Monitor	Operating voltage, CPU temperature and fan speed
Dimensions	Intel® ECX Form Factor (105 x 146mm)
Environmental Factors	Operation Temp: 0°C - 60°C Storage Temp.: -10°C - 85°C Humidity: 0% - 90%
Certifications	CE, FCC Class A

KEEX-4030 Rear I/O



Ordering Information

Article	Part No.	Description
KEEX-4030	B3EX4030-001002T	Intel® Embedded Compact Extended Form Factor with Intel® GM45/ ICH9M, DVI-I, HDMI, LVDS, GbE, SATA, USB 2.0, CF
KEEX-4031	B3EX4030-011002T	Intel® Embedded Compact Extended Form Factor with Intel® GM45/ ICH9ME, DVI-I, HDMI, LVDS, GbE, SATA, USB 2.0, CF, RAID1/0

Accessories

Article	Part No.	Description
SATA Cable*	0C501ATA0746000L	SATA cable , 7-pin connector with lock, L=46cm
PS/2 Cable*	0C5020002500010L	Y-cable, 6-pin pitch 2.0mm wafer connector to KB & MS connector, L=25cm
COM Port Cable	0C5019001000010L	COM Port cable, 10-pin pitch=1.25mm to DB-9 connector, L=10cm
USB Cable	0C502USB0201010L	USB cable, 2.54mm 10-pin to 2xUSB connectors with bracket, L=30cm
SATA Cable	0C501ATA7P30000L	SATA cable 7-pin + 15-pin 180D, L=30cm
CPU Cooler	0H05XX000000590L	Socket type CPU Cooler Fan, 50mm(L) x 50mm (W) x 23mm (H)
KEDB-1002	BBDB1000-022000T	HD Audio board
DC Jack cable	0C5029002000070L	DC-Jack cable, ATX 4pin connector to DC-Jack 5.5mm(L)x2.5Φ, L=20cm

* The item has been included in standard package.

Product Overview

The KEEX-4030 is an ECX Form Factor embedded single board computer (SBC) that combines the high performance Intel® Core™2 Duo or Quad-Core processor with Intel® GM45/ ICH9M chipset and supports DDR3 SODIMM up to 4GB. This SBC offers the latest performance, features and I/O interfaces at an extremely attractive price/performance ratio and

measures 105mm x 146mm, a 75 percent space reduction over micro-ATX boards.

The KEEX-4030 features HDMI, DVI and 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. PCIe x4 support provides expansion capability.

Block Diagram

