

KEMX-2130

Industrial Motherboard in Mini-ITX form factor
with Intel® Atom N270 + Intel® 945GSE/ ICH7-M



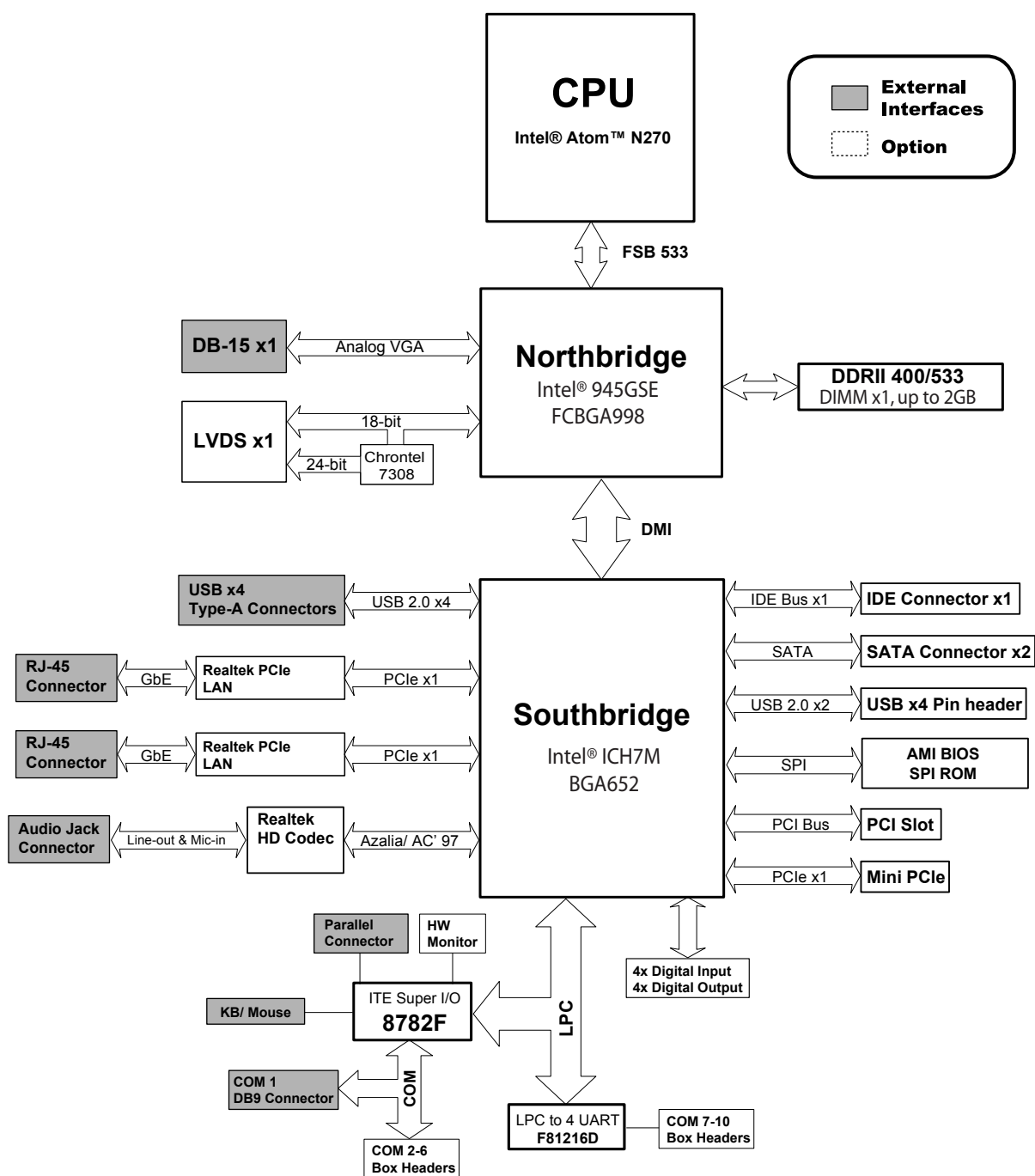
- Intel® Atom™ Processor N270
- Intel® 945GSE / ICH7-M
- 1x VGA, 18/24-bit dual-channel LVDS
- 1x DDR2 DIMM Socket, total up to 2 GB
- Mini PCIe slot, PCI expansion slot
- 2x SATA, 8x USB 2.0, 2x GbE
- 10x COM ports, 1x Parallel port, 4x DI/DO
- Watchdog Timer, Hardware Monitor

Product Overview

The KEMX-2130 is a Mini-ITX form factor industrial motherboard combining the latest Intel 45nm Intel® Atom™ processor with the high integration of the Intel® 945GSE/ ICH7-M chipset. The new architecture of Atom™ N270 enable the lowest power consumption and smallest form factor for thin client and fundamental use. Featured are DDR2-400/533

DIMM up to 2GB, 18/ 24-bit LVDS, 2x Gigabit Ethernet, SATA, PCI/mini PCIe Expansion slot, 8x USB 2.0, 10x COM ports with Power Selection, HD audio, parallel port and keyboard/mouse. The KEMX-2130 is a compact, high performance industrial motherboard that is ideal for multimedia, gaming, mobile PC, and thin client applications.

Block Diagram

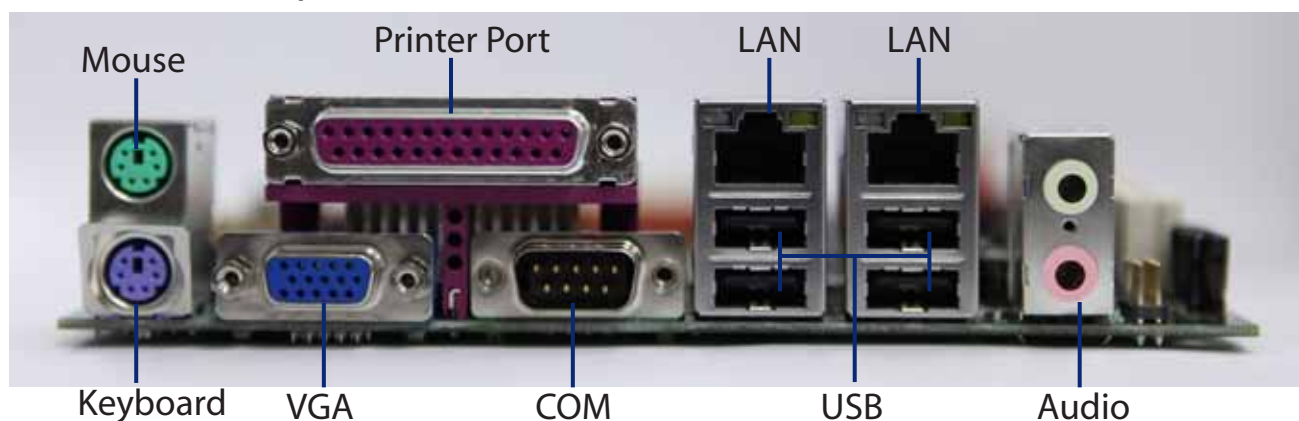


Technical Information

CPU Support	Intel® Atom™ N270
Chipset	Intel® 945GSE + ICH7-M
Memory	1x DDR2 400/533 DIMM Socket, up to 2GB
BIOS	AMI PnP BIOS
Display	Integrated on Intel® 945GSE Chipset 1x VGA 18/24-bit dual-channel LVDS from Chrontel CH7308 (KEMX-2130) 18-bit dual-channel LVDS from 945GSE (KEMX-2132)
LAN	2x RJ-45, Gigabit Ethernet
Audio	HD Audio Codec, supports Line-out & Microphone 1x box header for front audio
Peripheral Support	1x IDE (UltraDMA 100 / 66 / 33) 2x SATA 8x USB 2.0 (one reserved for Mini-PCle) 1x PS/2 Keyboard connector 1x PS/2 Mouse connector 1x Parallel port (DB-25 & Box Header) 4x DI/DO 10x COMs with Power Selection (KEMX-2130: 9x RS-232, 1x RS-232/422/485) 6x COMs with Power Selection (KEMX-2132: 5x RS-232, 1x RS-232/422/485)

Power Connector	ATX-20P with AT/ ATX Power Support (KEMX-2130) ATX-20P with ATX Power Support (KEMX-2132)
Expansion	1 x PCI slot with 2 x PCI master supported 1 x Mini-PCle slot
Watchdog Timer	1-255 step
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-2130 Rear I/O



Ordering Information

Article	Part No.	Description
KEMX-2130	BMMX2130-101000T	Mini-ITX Motherboard with Intel® Atom N270, Intel® 945GSE/ ICH7-M, 18/24-bit LVDS, HD Audio, SATA, USB 2.0, 10x COMs with Power Support, Parallel Port, GbE, ATX/ AT
KEMX-2132	BMMX2130-121000T	Mini-ITX Motherboard with Intel® Atom N270, Intel® 945GSE/ ICH7-M, 18-bit LVDS, HD Audio, SATA, USB 2.0, 6x COMs with Power Support, Parallel Port, GbE, ATX

Accessories

Article	Part No.	Description
SATA cable*	0C501ATA0746000L	SATA cable , 7-pin connector with lock, L=46cm
I/O Shield*	0F0000000000090L	KEMX-2130 series I/O Shield
USB cable	0C502USB0201010L	USB cable, 2.54mm 10-pin to 2xUSB connectors with bracket, L=30cm
COM port cable	0C5031002500020L	COM port cable, 2x 10-pin 2.54mm to 2x DB9 connector with bracket, L=25cm
IDE cable	0C501ATA4445300L	IDE cable, 2.0mm 44-pin to 44-pin connector, L=45cm
SPDIF Cable	0C5021002000020L	SPDIF CABLE pitch:2.54 1x2P to RCA connector , L=20CM ,180 degree

* The item has been included in standard package.