

# ••• KEEX-2230

Intel® Embedded Compact Extended Form Factor  
with Intel® Atom N270



- Intel® Atom™ Processor N270
- Intel® 945GSE / ICH7-M
- DDR2 SO-DIMM Socket, total up to 2 GB
- SATA, CompactFlash socket, 1x mini PCIe, SIM card supported
- 2x Gb/s Ethernet, 6x USB 2.0 ports, 4x COM, VGA, 18/24-bits LVDS
- Watchdog Timer, Hardware Monitor

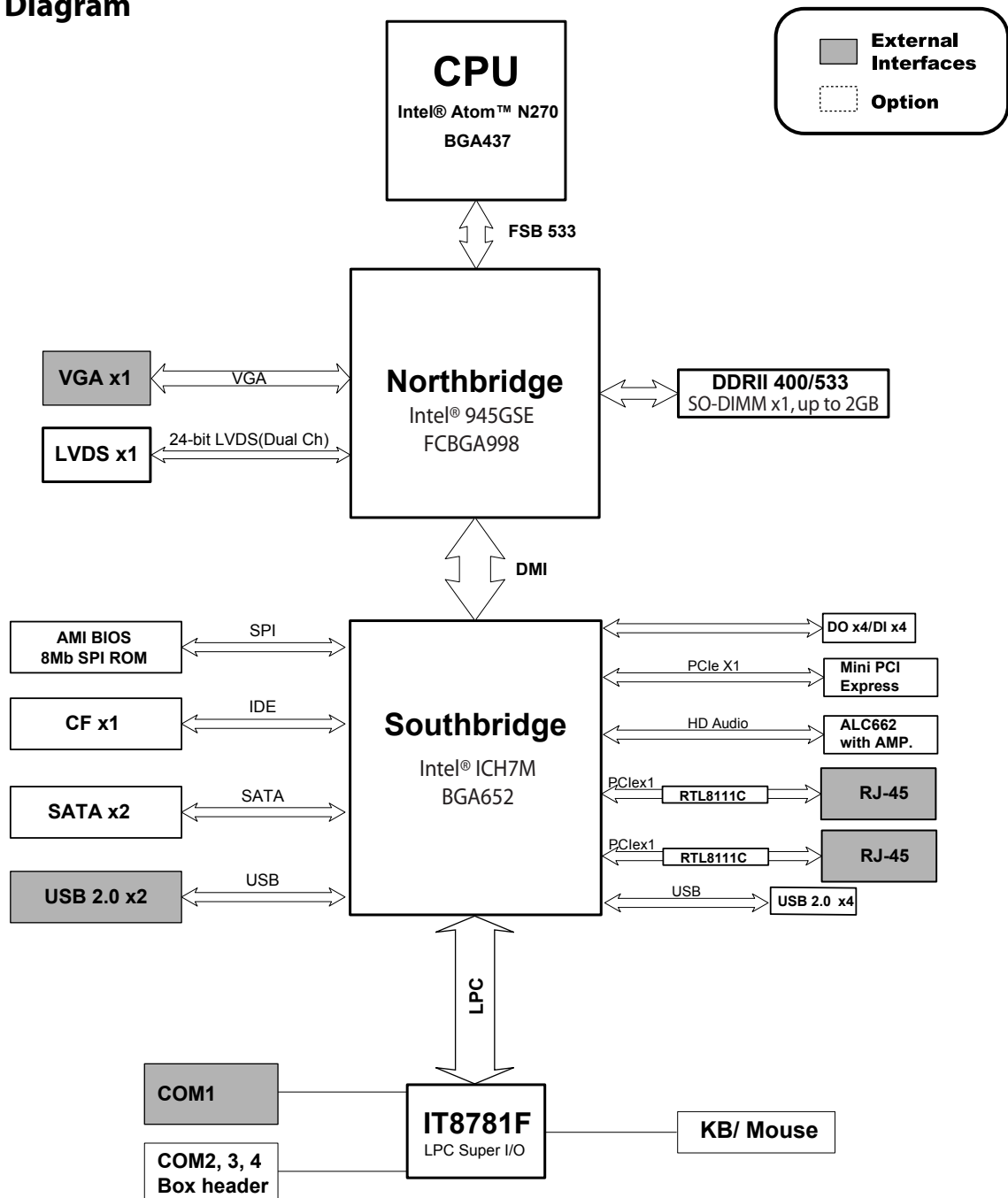


## Product Overview

The KEEX-2230 is an Intel® embedded compact extended form factor single board computer (SBC) that combines the high performance and low power consumption of the Intel® Atom™ processor with Intel® 945GSE/ ICH7M chipset and supports DDR2 400/533 SODIMM up to 2GB. 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-2230 features VGA and 18/24-bit dual channel LVDS panel support, SATA , RS-232/422/485 serial port, Digital I/O, GbE, USB 2.0, keyboard/mouse, and HD audio. CompactFlash, and Mini PCIe slot support provide expansion capability.

## Block Diagram

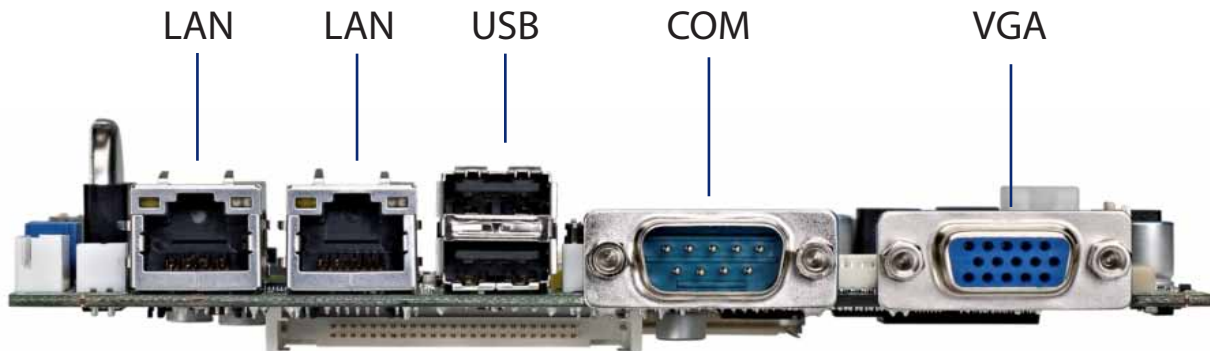


## Technical Information

<b>CPU Support</b>	Intel® Atom™ N270
<b>Chipset</b>	Intel® 945GSE + ICH7-M
<b>Memory</b>	1x DDR2 400/533 SO-DIMM Socket, up to 2GB
<b>BIOS</b>	AMI Plug & Play BIOS
<b>Display</b>	Integrated on Intel® 945GSE Chipset 24-bit Dual channel LVDS support 1x VGA
<b>Peripheral Support</b>	2x SATA (one with onboard power connector) 1x CompactFlash socket 6x USB 2.0 4x COMs with Power Selection (1x RS-232/422/485) 4x DI/DO (via pin-header) 1x PS/2 KB & MS (via pin-header)
<b>LAN</b>	2x RJ-45, Gigabit Ethernet (RTL8111C Controller) PXE & RPL supported WOL supported

<b>Audio</b>	Realtek ALC662-VC HD codec on board with 1x 2W audio amplifier One 6-pins wafer connector for Line-Out, Line-In Two 2-pins pitch 2.0mm wafer connector for Right/Left speaker out
<b>Power Connector</b>	ATX-4P
<b>Expansion</b>	1x Mini PCIe slot (1x 6-pins wafer connector for SIM card supported, working with 1st mini-PCIe)
<b>Watchdog Timer</b>	1-255 step, can be set with software on Super I/O
<b>Hardware Monitor</b>	Operating voltage, CPU temperature and fan speed
<b>Dimensions</b>	Intel® ECX Form Factor, 10.50 x 14.60 cm ( 4.13 x 5.75 inches)
<b>Environmental Factors</b>	Operation Temp: 0°C - 60°C Storage Temp.: -10°C - 85°C Humidity: 0% - 90%
<b>Certifications</b>	CE, FCC Class A

## KEEX-2230 Rear I/O



## Ordering Information

Article	Part No.	Description
KEEX-2230	B3EX2230-001000T	PROD, KEEX-2230, ECX board, AtomN270 + Intel945GSE/ICH7M with VGA/24-bit LVDS, 2 x Gb/s Ethernets, 4 x COMs, 7 x USB2.0 ports, 1 x miniPCIE, 2 x SATA ports, CF, audio w/ 2W amplifier
	B3EX2230-011000T	PROD, KEEX-2231, ECX board, AtomN270 + Intel945GSE/ICH7M with VGA/18-bit LVDS, 2 x Gb/s Ethernets, 4 x COMs, 7 x USB2.0 ports, 1 x miniPCIE, 2 x SATA ports, CF, audio w/o 2W amplifier

## Ordering Information

### Accessories

Article	Part No.	Description
PS/2 Cable *	0C5020002500010L	Y-cable, 6-pin pitch 2.0mm wafer connector to KB&MS connector, L=25cm
COM 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 *	0C501ATA0746000L	SATA cable , 7-pin connector with lock, L=46cm
SATA Cable	0C501ATA7P30000L	SATA cable 7-pin + 15-pin 180D, L=30cm
Audio Cable	0C5049001000020L	Audio cable, 6-pin to three Phone Jacks, L=10cm
DC Jack cable	0C5029002000070L	DC-Jack cable, ATX 4pin connector to DC-Jack 5.5mm( L )x2.5 , L=20cm
Cable set for KEEX-2130	0ZCKEEX2130B1000	Cable Kit FOR KEEX-2130, includes cables for COM/SATA/PS2/DC jack/Audio /USB

\* The item has been included in standard package.