

# KEEX-2030

Industrial 3.5" Embedded SBC with Intel® Atom N270



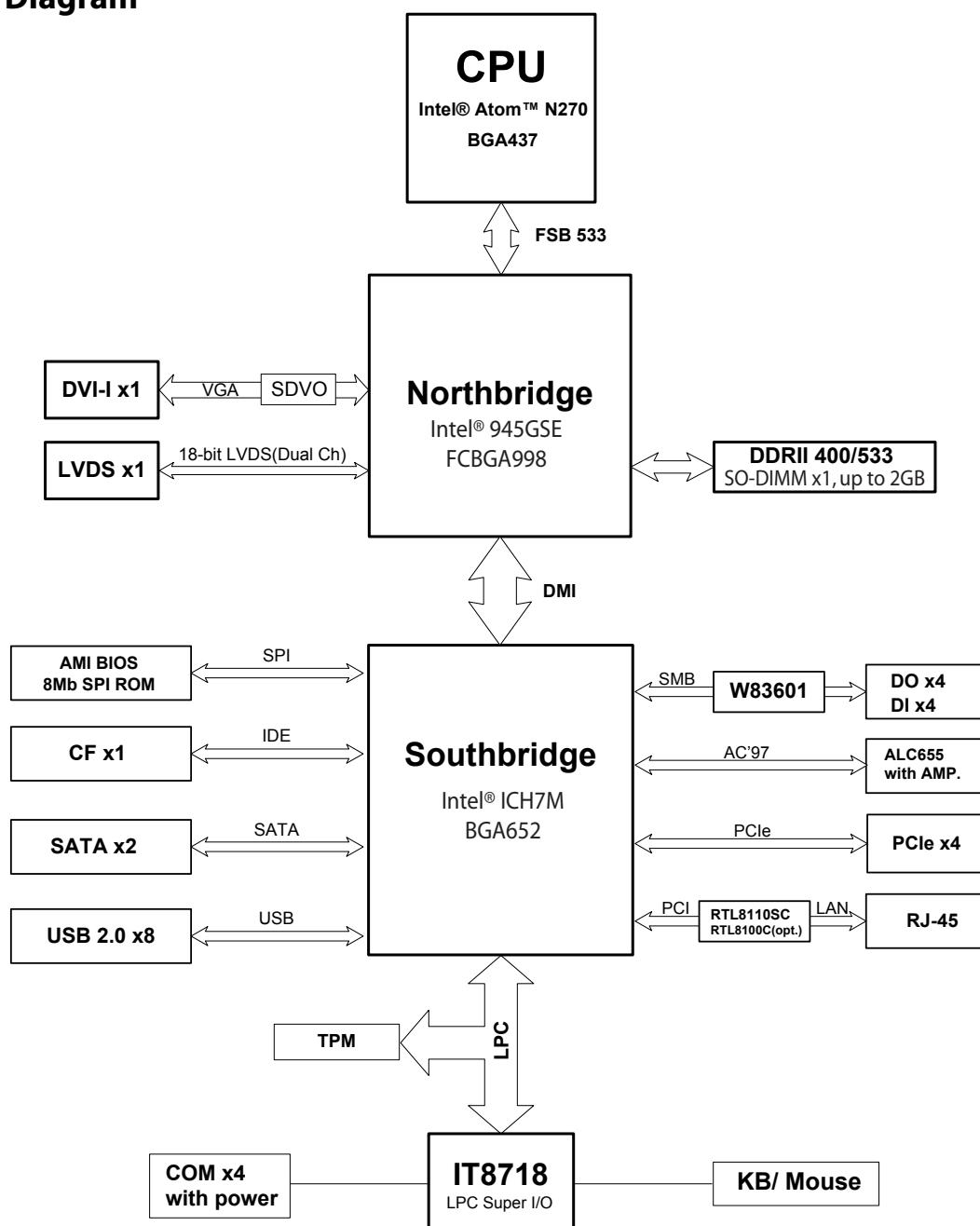
- Intel® Atom™ Processor N270
- Intel® 945GSE / ICH7-M
- DDR2 SO-DIMM Socket, total up to 2 GB
- SATA, CompactFlash socket, 1x PCIe x4 slot (w/ 4x PCIe x1 speed)
- Gb/s Ethernet, 8x USB 2.0 ports, 4x COM ports, DVI-I supported
- Watchdog Timer, Hardware Monitor, TPM 1.2

## Product Overview

The KEEX-2030 is an 3.5" Form Factor embedded 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 102mm x 146mm, a 75 percent space reduction over micro-ATX boards. The KEEX-2030 features DVI and 18-bit dual channel LVDS panel support, SATA, RS-232/422/485 serial port, Digital I/O, Gb/s Ethernet, USB 2.0, keyboard/mouse, and AC97" audio. PCIe x4 support provides expansion capability.

## Block Diagram

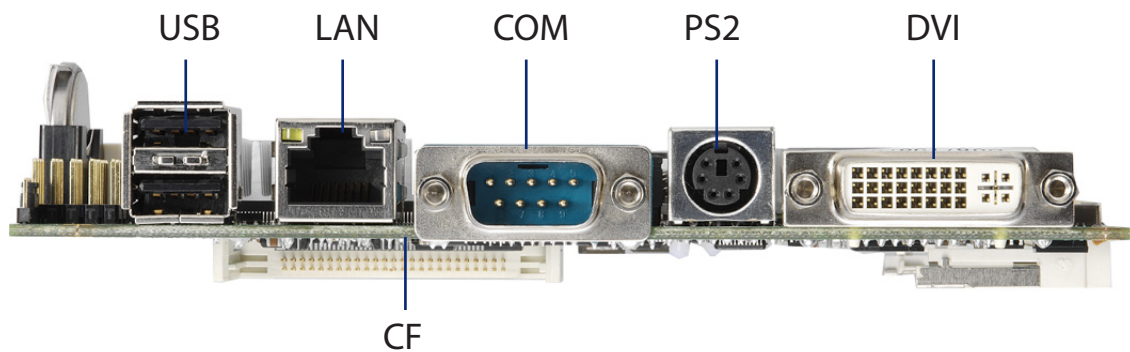


## Technical Information

<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 – 8Mb SPI ROM
<b>Display</b>	Integrated on Intel® 945GSE Chipset 18-bit Dual channel LVDS support 1x DVI-I
<b>Peripheral Support</b>	2x SATA (one with onboard power connector) 1x CompactFlash socket 8x USB 2.0 4x COMs with Power Selection (1x RS-232/422/485, 3x RS-232) 4x DI/DO 1x Mini-Din PS/2 KB/ MS
<b>TPM</b>	TPM 1.2

<b>LAN</b>	1x RJ-45, Gigabit Ethernet (Realtek 8110SC Controller for KEEX-2030) 1x RJ-45, Fast Ethernet (Realtek 8100SC Controller for KEEX-2031)
<b>Audio</b>	AC'97 ALC655 Codec with 2W Audio Amplifier Supports Line-in, Line-out & Microphone
<b>Power Connector</b>	ATX-4P
<b>Expansion</b>	1x PCIe x4 slot (w/ 4x PCIe x1 speed)
<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>	3.5" Embedded Board (102 x 146 mm)
<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-2030 Rear I/O



## Ordering Information

Article	Part No.	Description
KEEX-2030	B3EX2030-001002T	Industrial 3.5" Embedded SBC with Intel® Atom N270, 945GSE/ ICH7-M chipset, Gb Ethernet, LVDS, DVI, SATA, PCIe x4 expansion and USB 2.0
KEEX-2031	B3EX2030-011002T	Industrial 3.5" Embedded SBC with Intel® Atom N270, 945GSE/ ICH7-M chipset, Fast Ethernet, LVDS, DVI, SATA, PCIe x4 expansion and USB 2.0

### Accessories

Article	Part No.	Description
SATA Cable*	0C501ATA0746000L	SATA cable, 7-pin connector with lock, L=46cm
PS/2 Cable*	0C5029002000100L	Mini PS/2 Y-cable with Keyboard / Mouse , L=200mm , 180 degree
SATA Cable	0C501ATA7P30000L	SATA cable, 7-pin + 15-pin 180D, L=30cm
USB Cable	0C502USB0201010L	USB cable, 2.54mm 10-pin to 2xUSB connectors with bracket, L=30cm
Audio Cable	0C5049001000020L	Audio cable, 6-pin to three Phone Jacks, L=10cm
COM Port Cable	0C5019001000010L	COM Port cable, 10-pin pitch=1.25mm to DB-9 connector, L=10cm
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.