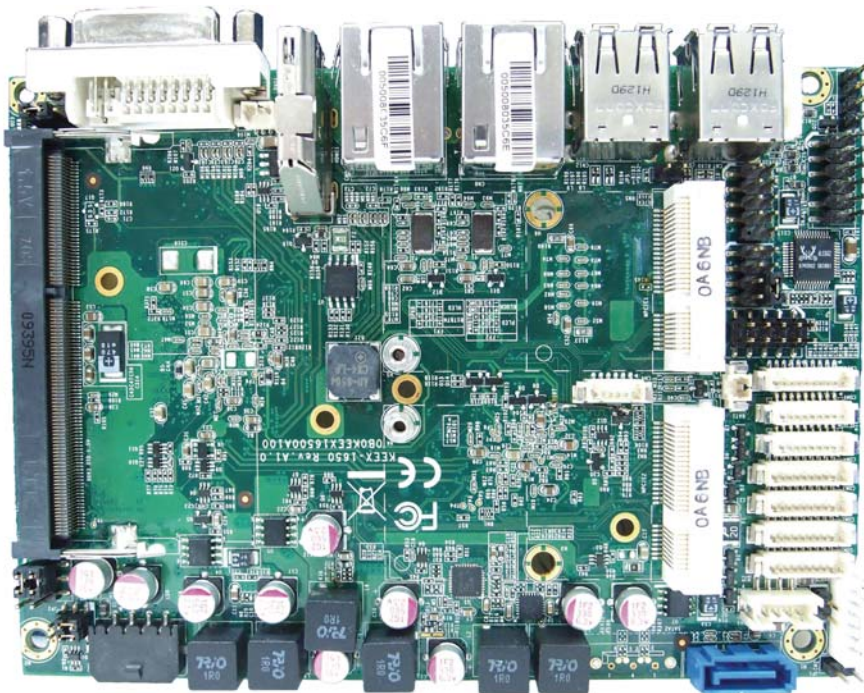


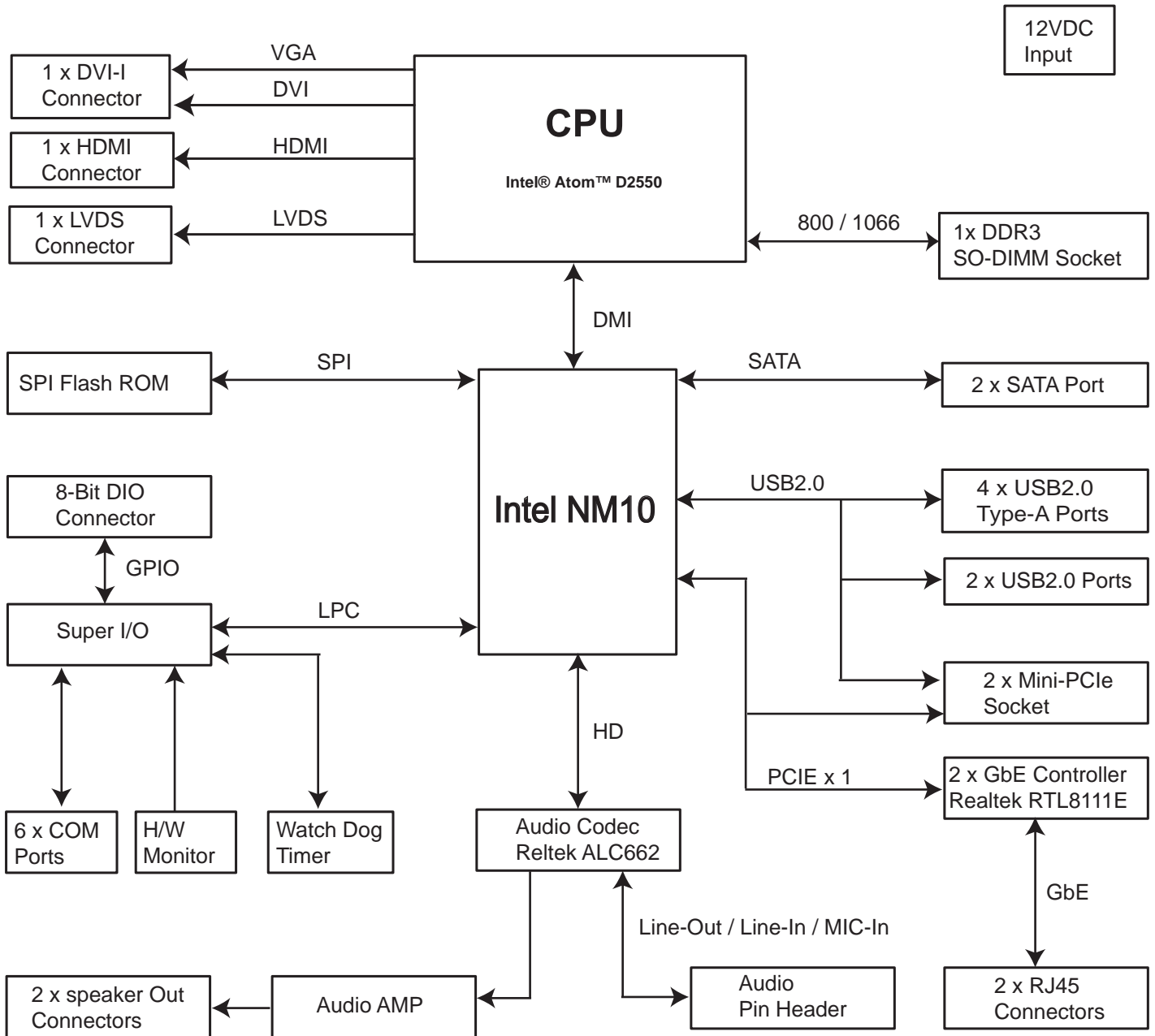
# KEEX-1652

Single Board Computer  
in Intel® Embedded Compact Extended Form Factor  
with Intel® Atom™ Dual Core Processor D2550



- Intel® Atom™ Processor D2550
- Intel® NM10 Express Chipset
- Intel® Graphics Media Accelerator 3650
- Single-channel DDR3 800/1066 MHz memory support
- 6xUSB2.0, 6xCOM, 2xGbE LAN, 1xSATA, 1x mSATA
- 8-bits Digital I/O supported
- LVDS, HDMI, DVI-I Supported
- Mini-PCIe expansion

## Block Diagram

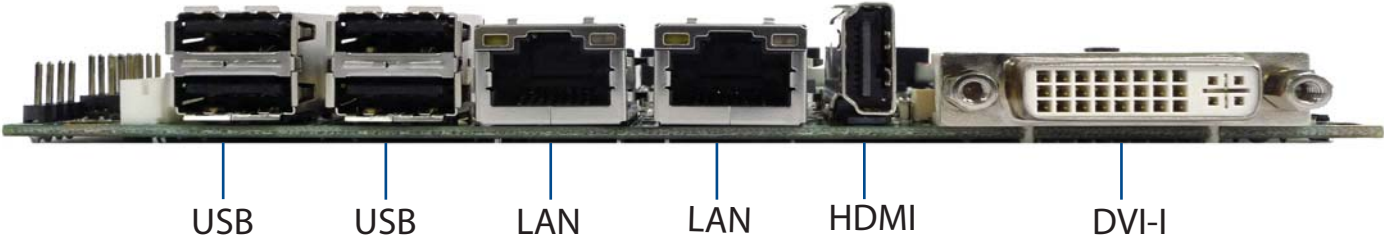


Technical Information

CPU Support
Intel® Atom™ Processor D2550 (Dual Core, 1M Cache, 1.86GHz)
Chipset
Intel® NM10 Express Chipset
Memory
1x Single-channel DDR3 800/1066 MHz memory support (4GB max)
BIOS
AMI uEFI BIOS (16Mb SPI flash ROM)
Display
Intel® Graphics Media Accelerator 3650 1x Single channel 18-bit/24-bit LVDS 1x HDMI type A connector on rear I/O 1x DVI-I connector on rear I/O
LAN
2x Gigabit Ethernet (Realtek RTL8111E) PXE/RPL/WOL supported
Audio
Realtek ALC662-VC HD Codec w/ 2W Audio Amplifier Line-In, Line-Out and Mic-In Supported 1x S/PDIF
Storage
1x SATA 1x mSATA
USB
6x USB 2.0 supported

COM
6x COM ports supported (4x COM[RS-232] ports with power selection on COM1~4) (1x COM port with RS-232/422/485 selection on COM1) (2x COM[RS-232] ports without power selection on COM5~6)
DIO
1x 8-bits programmable DIO
Expansion Slot
1x Mini-PCle
Hardware Monitor
Operating voltage, CPU temperature and fan speed
Watchdog Timer
1-255 step, can be set with software on Super I/O
Power
AT/ATX Power Mode supported 1x4 pin power connector for single +12VDC power input
OS Supported
Windows 7
Dimensions
ECX, 146 mm x 105 mm / 5.75" x 4.13"
Environment
Operation Temp: 0°C ~ 60°C / 32°F ~ 140°F Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F Humidity: 0% ~ 95%
Certification
CE, FCC Class A

KEEX-1652 Rear I/O



## Ordering Information

Article	Part No.	Description
KEEX-1652	B3EX1650-021000T	Industrial ECX Board with Intel® Atom D2550, NM10 Express chipset, Gb Ethernet, 18/24-bit LVDS, DVI, SATA, mSATA, MiniPCle, USB 2.0

## Optional Accessories

Product Name	Quanmax P/N	Description
PS/2 Cable	0C5020002500010L	Y-cable, 6-pin pitch 2.0mm wafer connector to KB&MS connector, L=25cm
COM Cable	0C5020000000910L	COM Port cable, 10-pin pitch=1.25mm to DB-9 connector, L=35cm
USB Cable	0C502USB0201010L	USB cable, 2.54mm 10-pin to 2xUSB connectors with bracket, L=30cm
SATA Power Cable*	0C5020000001590L	SATA power cable, WL2000H 1x4P 2.0pitch to SATA 1x15P 1.27pitch , L=46cm
SATA Cable*	0C5010000000030L	SATA cable , 7-pin connector with lock, L=46cm
DC Jack cable*	0C5020000001580L	DC In cable, MX3.0 1x4P 3.0pitch connector to DC-Jack 5.5x2.5 , L=30cm
Heat Spreader	0ZHKKEEX16500001	KEEX-1650 Heat spreader kit
S/PDIF Cable	0C5021002000020L	SPIDF CABLE pitch:2.54 1x2P to RCA connector ,L=20cm ,180 degree

\* The item has been included in standard package.