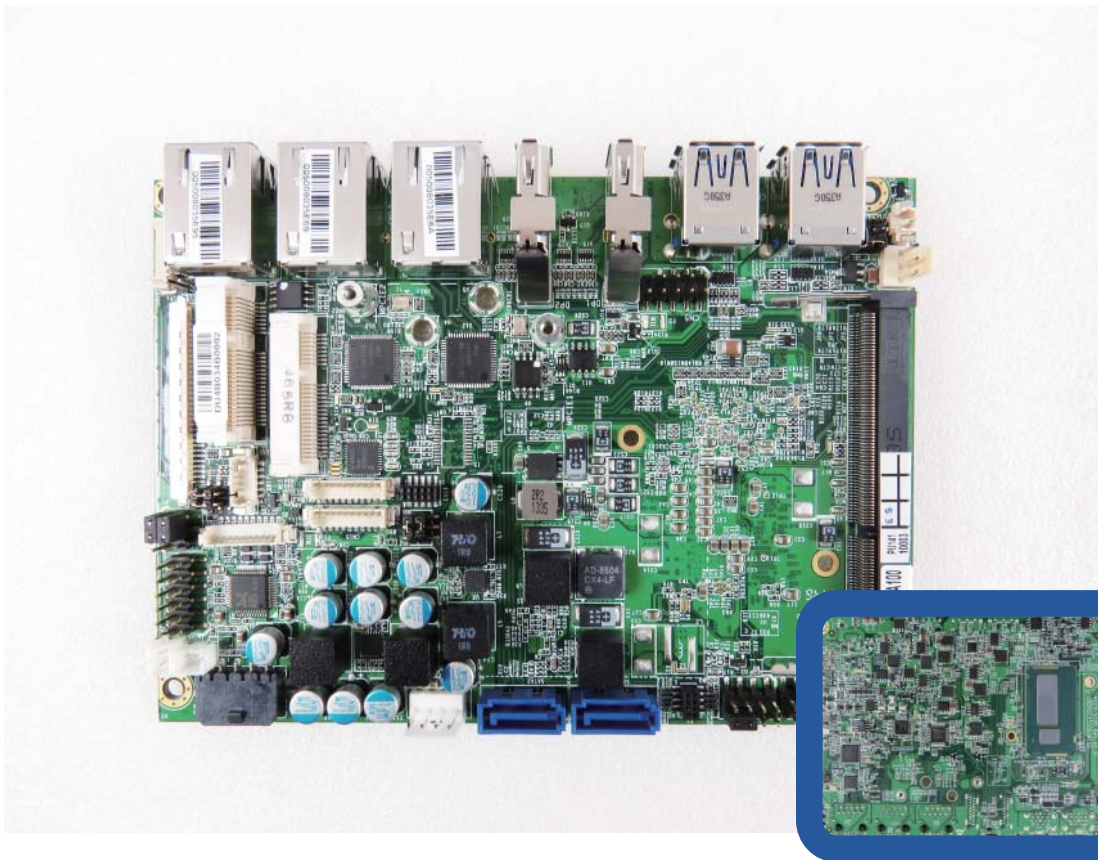


# KEEX-5100 Series

Intel® Embedded Compact Extended Form Factor  
with Intel® Haswell ULT Processors

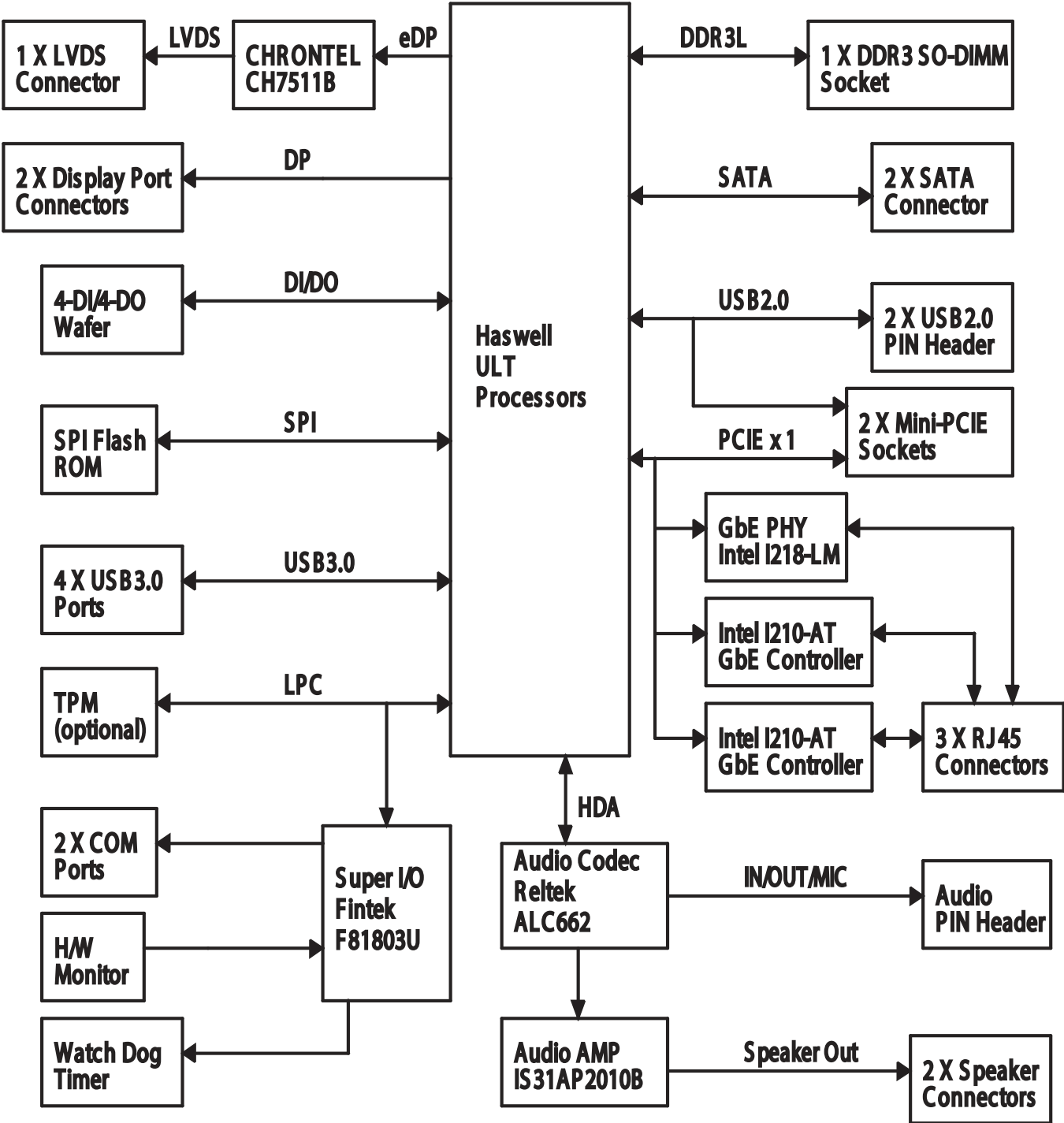


- Intel® Haswell ULT Processors
- 1x DDR3L SO-DIMM Socket
- 1x 18/24-bit, 1/2-channel LVDS
- 2x SATA, 1x mSATA
- 3x GbE, 4x USB3.0, 2xUSB 2.0, 2x COM
- 2x mini-PCIe Sockets ( Option SIM card support )
- 8-bit Digital I/O supported (4-bit input/4-bit output)
- Watchdog Timer, Hardware Monitor, TPM, iAMT

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• Block Diagram

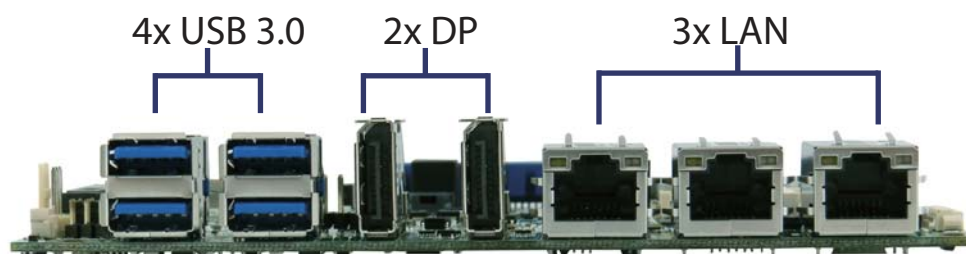


## Technical Information

<b>CPU Support</b>	Intel® Haswell ULT Processor
<b>Memory</b>	1x DDR3L SO-DIMM Socket
<b>BIOS</b>	AMI uEFI BIOS 1x 128Mb SPI Flash ROM
<b>Display</b>	2x DP 1x 18/24 bit, 1/2 ch LVDS
<b>Peripheral Support</b>	2x SATA connectors 1x mSATA Sockets ( Mixed with mPCIe socket) 2x wafers for COM ports support COM1 & COM2 support RS-232/422/485 2x USB 2.0 4x USB 3.0 type A Connectors 1x DIO (4-bit in and 4-bit out)
<b>MISC Support</b>	1x Header for Reset button, HDD LED and External Speaker 1x Header for Power button, Power LED and SM bus 1x Header for mPCIe activity LED
<b>LAN</b>	2x RJ-45 Connectors for Dual GbE LAN (Intel I210-AT) 1x RJ-45 Connectors (Intel I218-LM)
<b>Audio</b>	1x header for Line-In, Line-Out and Mic-In 2x Wafers for Stereo Speaker output

<b>Power Connector</b>	One 1x4-pin, pitch 3.0mm Wafer for +12VDC input One 1x4-pin, pitch 2.5mm Wafer for HDD Power supply One 1x7-pin, pitch 1.25mm Wafer for Panel Power supply ATX/AT Mode Support ACPI 3.0 support
<b>Expansion</b>	2x mini-PCIe sockets 1x wafer for SIM card support
<b>Cooling</b>	+12VDC CPU Smart FAN support
<b>Watchdog Timer</b>	Programmable WDT to generate System reset event
<b>Hardware Monitor</b>	Voltage and System temperature monitoring
<b>OS Supported</b>	Windows 7 / Windows 8 / Linux
<b>Dimensions</b>	Intel® ECX Form Factor (105 x 146 x 1.5 mm / 4.13" x 5.75" x 0.06")
<b>Environmental Factors</b>	Operation Temp: 0°C - 60°C Storage Temp.: -20°C - 80°C Humidity: 0% - 95%
<b>RTC</b>	Chipset intergrated RTC
<b>Certifications</b>	CE, FCC Class A

## KEEX-5100 Series I/Os



## Ordering Information

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Article	Part No.	Description
KEEX-5100	B3EX5100-000000T	ECX CPU Board, Intel® Haswell Core™ i3-4010U Processor, 1x DDR3L SODIMM, 3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, without TPM & iAMT support
KEEX-5101	B3EX5100-010000T	ECX CPU Board, Intel® Haswell Core™ i5-4300U Processor, 1x DDR3L SODIMM, 3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, with TPM & iAMT support
KEEX-5102	B3EX5100-020000T	ECX CPU Board, Intel® Haswell Core™ i7-4500U Processor, 1x DDR3L SODIMM, 3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, with TPM & iAMT support