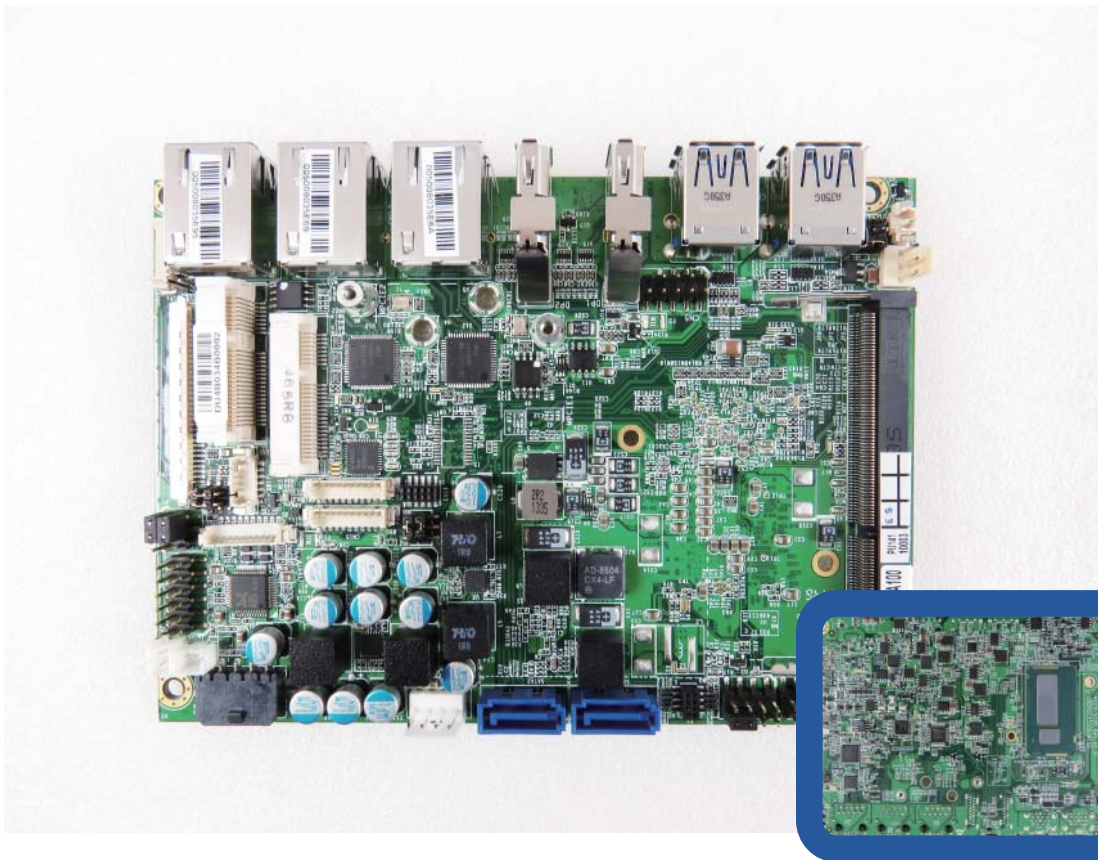


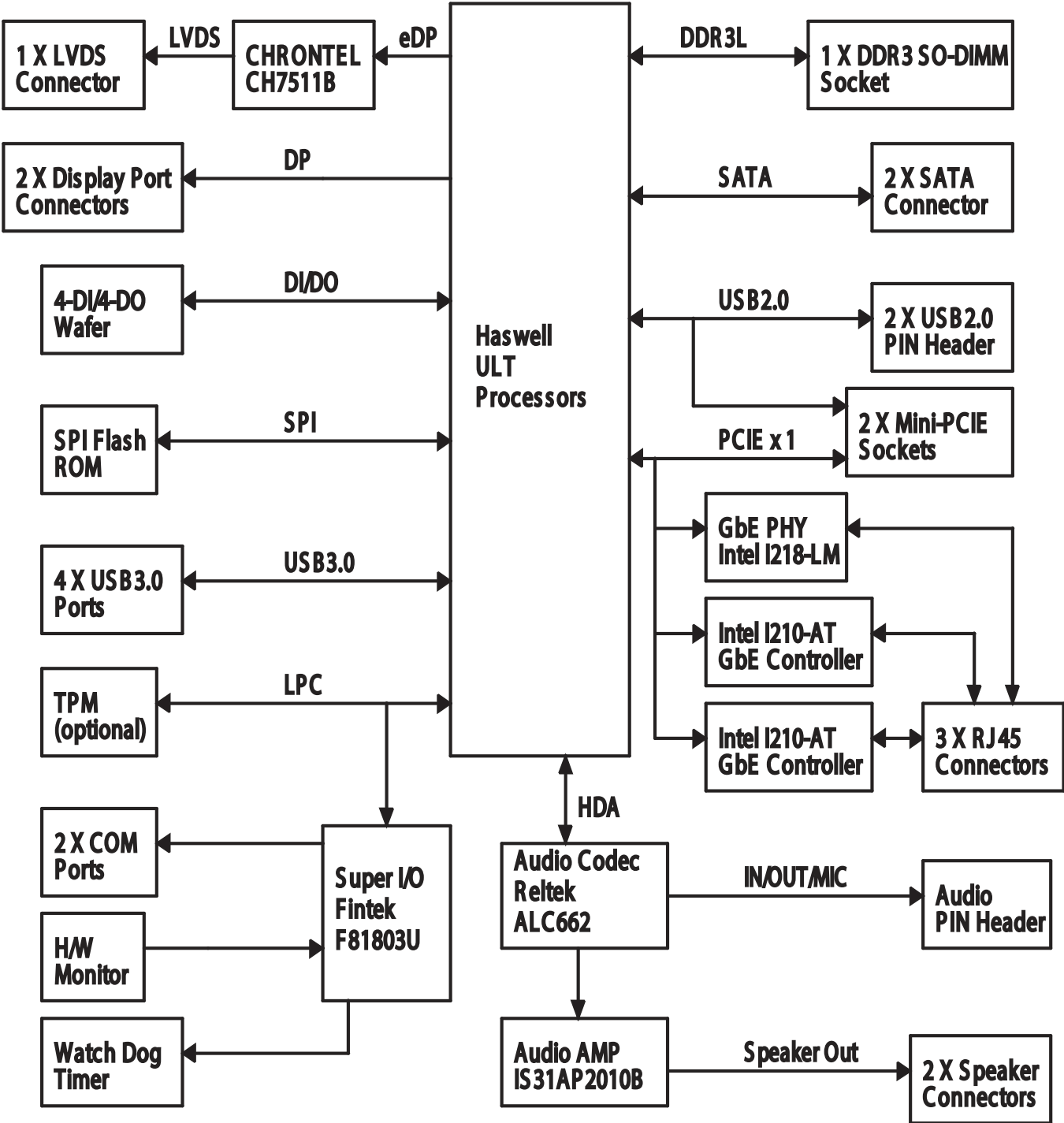
KEEX-5100 Series

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-PCle Sockets (Option SIM card support)
- 8-bit Digital I/O supported (4-bit input/4-bit output)
- Watchdog Timer, Hardware Monitor, TPM, iAMT

• Block Diagram

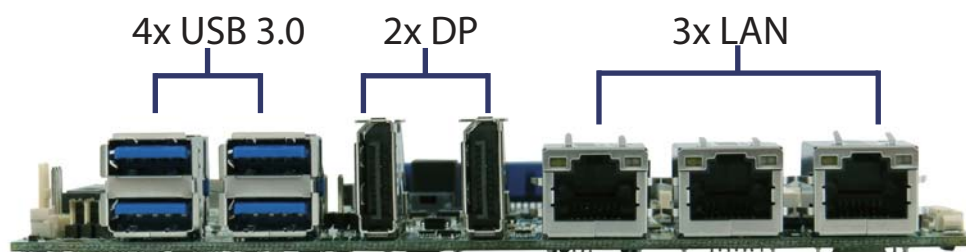


Technical Information

CPU Support	Intel® Haswell ULT Processor
Memory	1x DDR3L SO-DIMM Socket
BIOS	AMI uEFI BIOS 1x 128Mb SPI Flash ROM
Display	2x DP 1x 18/24 bit, 1/2 ch LVDS
Peripheral Support	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)
MISC Support	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
LAN	2x RJ-45 Connectors for Dual GbE LAN (Intel I210-AT) 1x RJ-45 Connectors (Intel I218-LM)
Audio	1x header for Line-In, Line-Out and Mic-In 2x Wafers for Stereo Speaker output

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

KEEX-5100 Series I/Os



Ordering Information

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