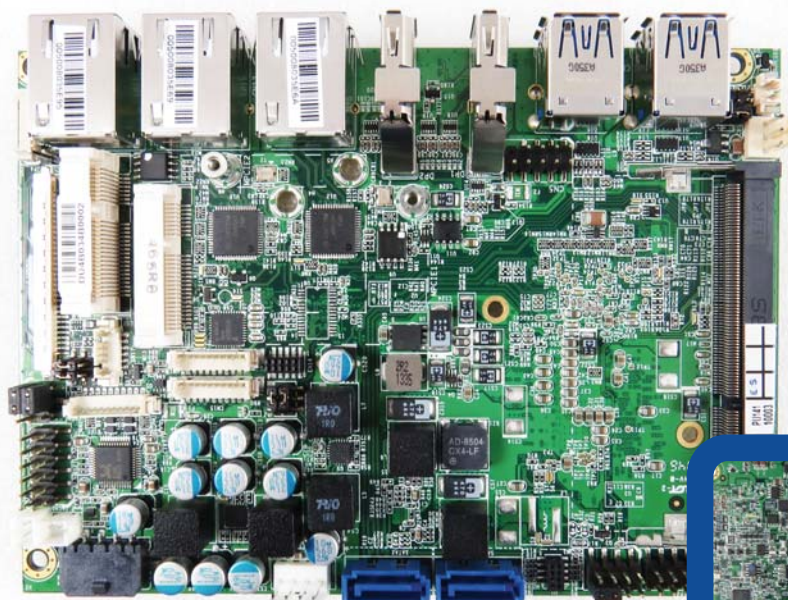


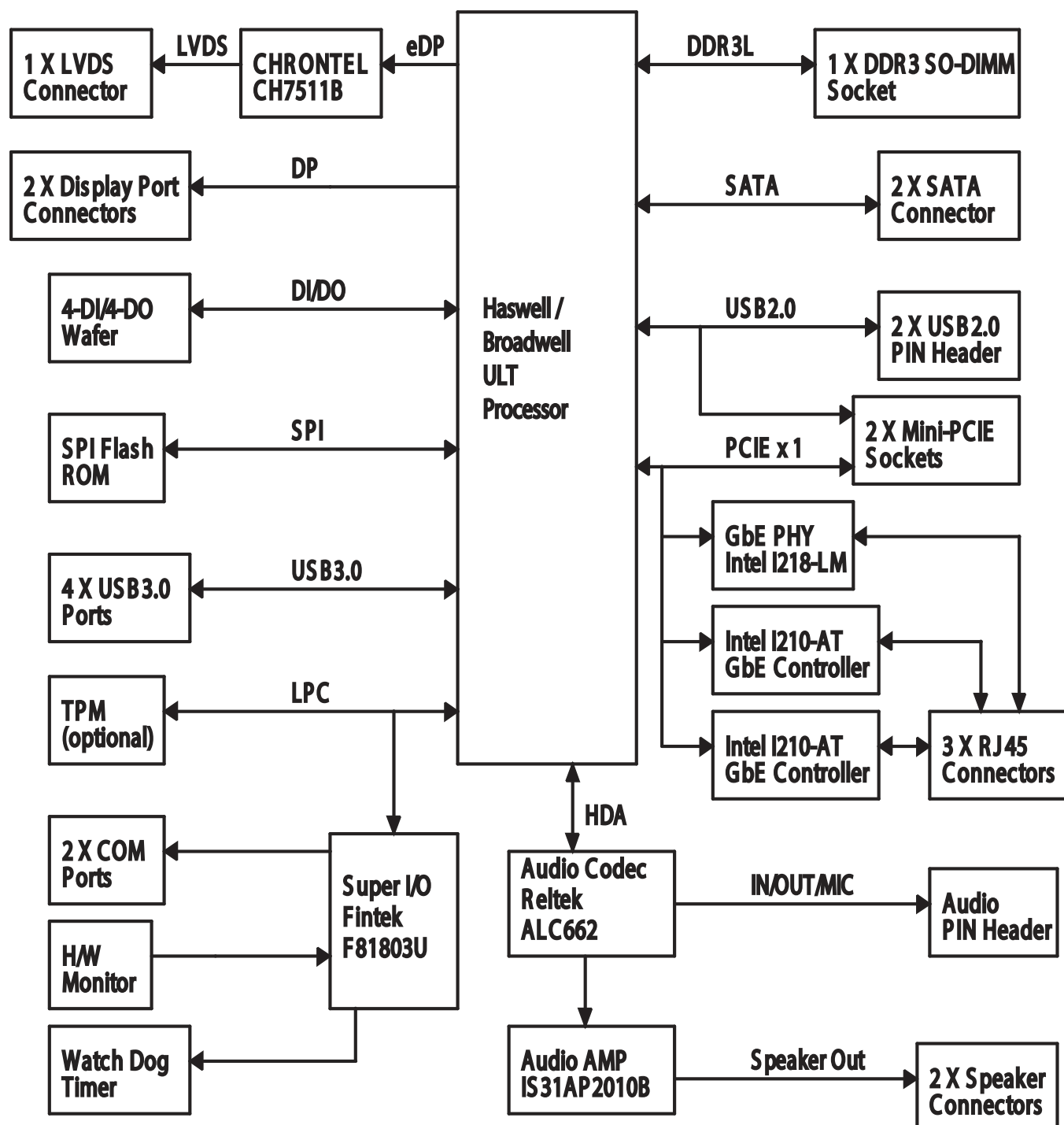
KEEX-5100 Series

Single Board Computer
in Intel® Embedded Compact Extended Form Factor
with 4th Generation Intel® Haswell / 5th Generation Intel®
Broadwell ULT Processor



- 4th Gen. Intel® Haswell / 5th Gen. Intel® Broadwell ULT Processor
- 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

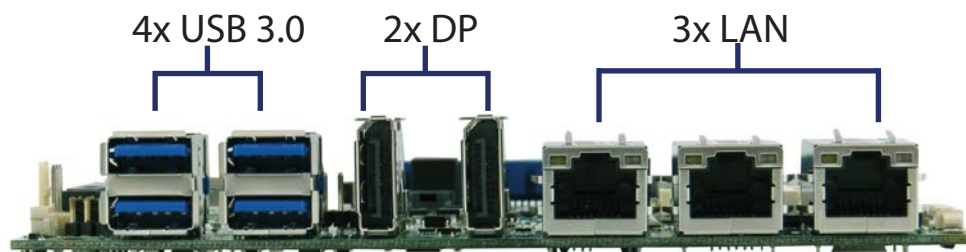
Block Diagram



Technical Information

CPU Support	4th Gen. Intel® Haswell / 5th Gen. Intel® Broadwell ULT Processor
Memory	1x DDR3L SO-DIMM Socket up to 8GB
BIOS	AMI uEFI BIOS 1x 128Mb SPI Flash ROM
Display	2x DP (on rear) 1x 18/24 bit, 1/2 ch LVDS
Peripheral Support	2x SATA 1x mSATA (mixed w/ mPCIe) 2x COM w/ RS-232/422/485 2x USB2.0 4x USB 3.0 Type A (on rear) 1x 8-bit DIO
MSIC 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 & 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 mPCIe 1x wafer for SIM card support
Cooling	+12VDC CPU Smart FAN support
Watchdog Timer	Programable WDT to generate System reset event
Hardware Monitor	Voltage & System temperature monitoring
OS Support	Windows 7 / Windows 8 / Linux
Dimensions	Intel® ECX Form Factor (146 x 105 x 1.5 mm / 5.75" x 4.13" x 0.06")
Environmental Factors (on a 24/7 basis)	Operation Temp.: 0°C ~ 60°C / 32°F ~ 140°F Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F Humidity: 0% ~ 95%
RTC	Chipset intergrated RTC
Certification	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-5103	B3EX5100-030000T	ECX CPU Board, Intel® Haswell Core™ i7-4650U Processor , 1x DDR3L SODIMM, 3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, with TPM & iAMT support
KEEX-5104	B3EX5100-040000T	ECX CPU Board, Intel® Broadwell Core™ i5-5350U Processor , 1x DDR3L SODIMM, 3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, with TPM & iAMT support
KEEX-5105	B3EX5100-050000T	ECX CPU Board, Intel® Broadwell Core™ i3-5010U Processor , 1x DDR3L SODIMM, 3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, without TPM & iAMT support
KEEX-5106	B3EX5100-060000T	ECX CPU Board, Intel® Broadwell Core™ i7-5650U Processor , 1x DDR3L SODIMM, 3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, with TPM & iAMT support
KEEX-5107	B3EX5100-070000T	ECX CPU Board, Intel® Broadwell Celeron® 3765U Processor , 1x DDR3L SODIMM, 3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, without TPM & iAMT support