KEEX-510T Series

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

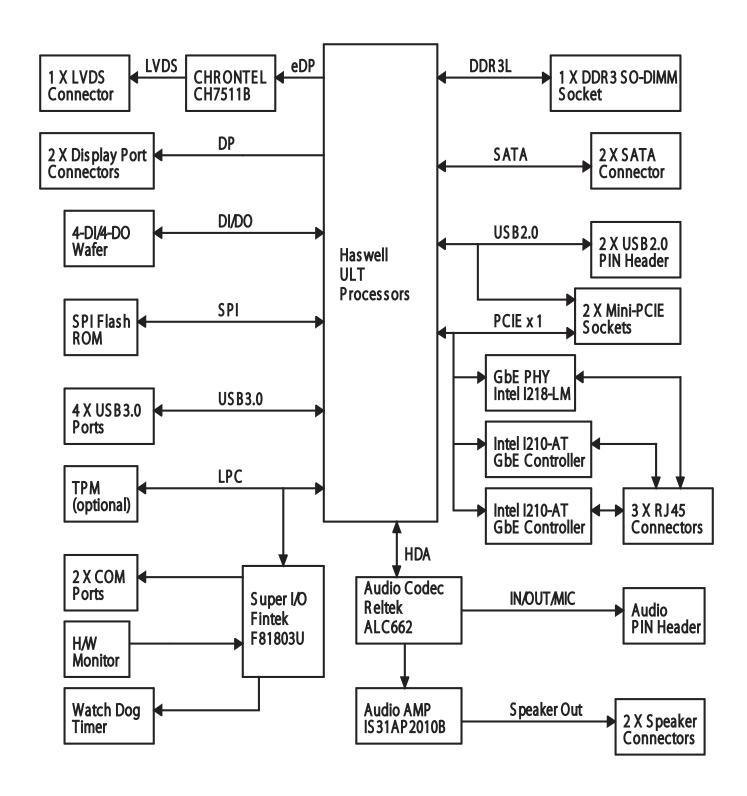


- Intel® Haswell ULT Core™ Processors
- •• 1x DDR3L SO-DIMM Socket
- •• 2x DP, 1x 24-bit/2-ch LVDS
- •• 2x SATA, 1x mSATA
- •• 3x GbE, 4x USB3.0, 2xUSB2.0, 2x COM
- 2x mini-PCle Sockets (1x wafer for SIM card support)
- 8-bit Digital I/O supported (4-bit input/4-bit output)
- Watchdog Timer, Hardware Monitor, TPM, iAMT
- •• Wide operating temperature range from -20°C to 70°C





Block Diagram





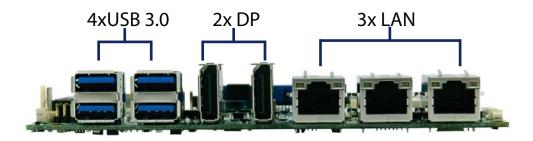
Technical Information

Intel® Haswell ULT Core™ i3-4010U Processor (KEEX-510A) Intel® Haswell ULT Core™ i5-4300U Processor (KEEX-510T) Intel® Haswell ULT Core™ i7-4650U Processor (KEEX-510B) 1x DDR3L SO-DIMM Socket AMI uEFI BIOS 1x 128Mb SPI Flash ROM onboard 2x DP (on rear) 1x 24-bit/2-ch LVDS Peripheral Support 2x SATA connectors 1x mSATA Sockets (Mixed with mPCle socket) 2x wafers for COM port support (COM1 & COM2 support RS-232/422/485) 4x USB 3.0 type A Connectors (on rear) 1x DIO (4-bit in and 4-bit out) 1x Header for Reset button, HDD LED and External Speaker 1x Header for Power button, Power LED and SM bus 1x Header for mPCle activity LED 2x RJ-45 Connectors for Dual GbE LAN (Intel I210-AT) 1x RJ-45 Connectors (Intel I218-LM) 1x header for Line-In, Line-Out and Mic-In

owe	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
xpan	sion
	2x mPCle sockets
	1x wafer for SIM card support
oolir	g
	1x Wafer for +12VDC CPU Smart FAN support
Vatch	dog Timer
	Programable WDT to generate System reset event
lardv	vare Monitor
	Voltage and System temperature monitoring
S Su	pport
	Windows 7 / Windows 8 / Linux
imer	nsions
	Intel® ECX Form Factor (105 x 146 mm / 4.13" x 5.75")
nvirc	nmental Factors
	Operation Temp: -20°C - 70°C
	Storage Temp: -40°C - 85°C
	Humidity: 0% - 95%
TC	
	Processor intergrated RTC
ertifi	cation
	CE, FCC Class A

KEEX-510T Series I/Os

2x Wafers for Stereo Speaker output



Ordering Information

Article	Part No.	Description
KEEX-510A	B3EX510A-000000T	ECX CPU Board, Intel® Haswell Core™ i3-4010U Processor, 1x DDR3L SODIMM,
KEEX-STUA		3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, without TPM & iAMT support
VEEN E10T	B3EX510T-010000T	ECX CPU Board, Intel® Haswell Core™ i5-4300U Processor, 1x DDR3L SODIMM,
KEEX-510T		3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, with TPM & iAMT support
KEEX-510B	B3EX510B-030000T	ECX CPU Board, Intel® Haswell Core™ i7-4650U Processor, 1x DDR3L SODIMM,
KEEX-310B		3x GbE, 1x LVDS, 2x DP, 4x USB3.0, 2x USB2.0, 2x COM, with TPM & iAMT support

