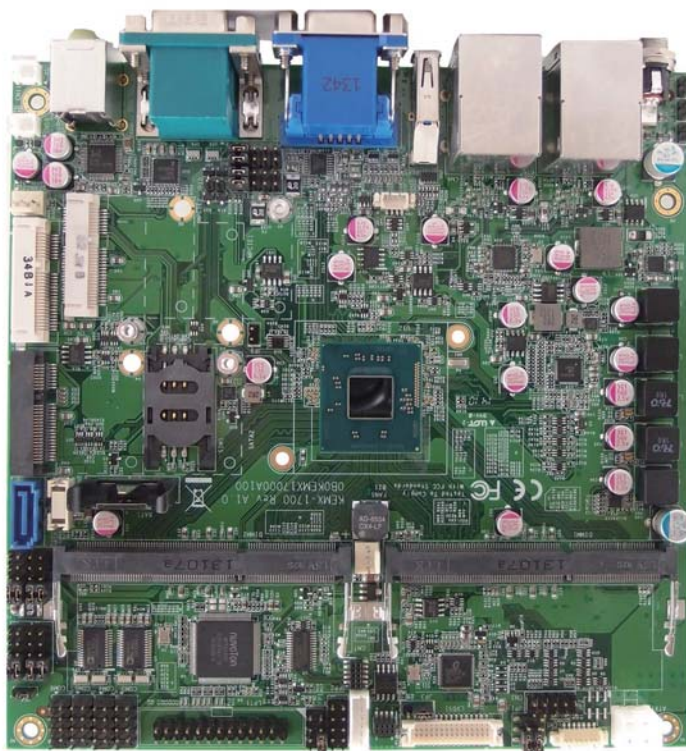


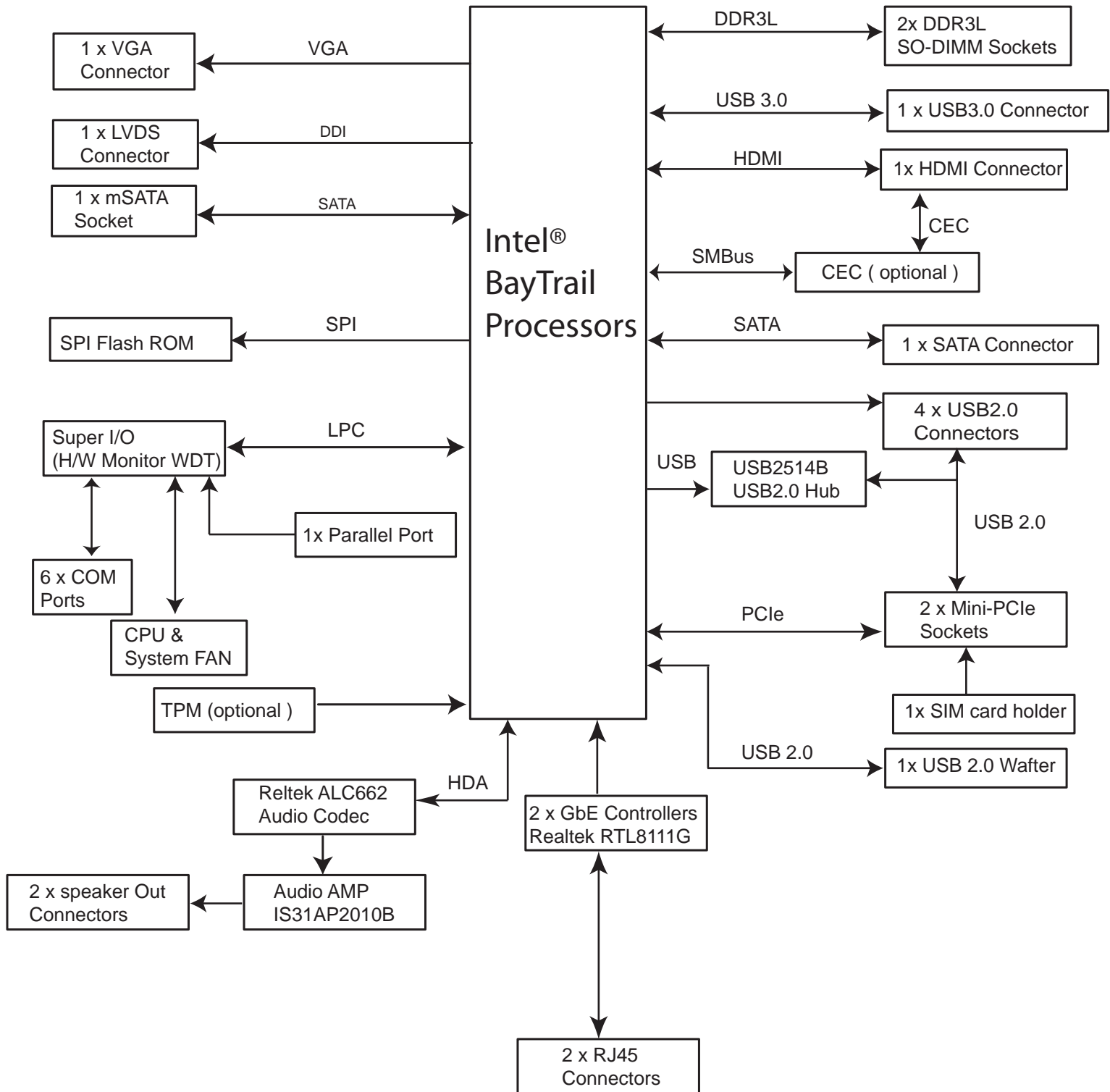
KEMX-1702

Industrial Motherboard in Mini-ITX Form Factor
with Intel® BayTrail Processors



- Intel® BayTrail Processors
- 2x DDR3L SO-DIMM Socket
- 2x GbE, 6x COM, 5x USB 2.0, 1x USB 3.0
- 1x VGA, 1x HDMI
- 1x PS/2 KB&MS, 1x Parallel port
- 2x mini-PCIe sockets
- 1x 2.5" SATA HDD/SSD, 1x mSATA

Block Diagram

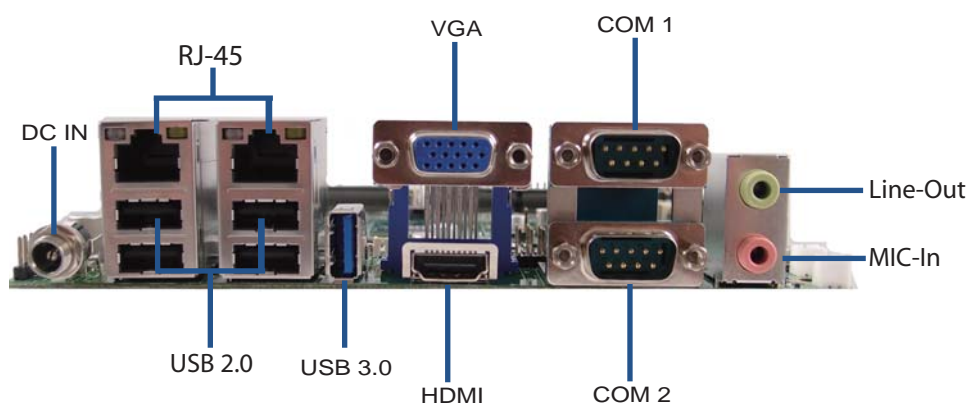


Technical Information

CPU Support	
Intel® Atom™ E3825 SoC Processor (Dual Core, 1M Cache, 1.33 GHz, FCBGA1170, 6W TDP)	
Memory	
1x DDR3L 1067 SO-DIMM up to 4GB	
Graphic Controller	
Intel® HD Graphics	
Display Interfaces	
1x LVDS (24-bit, 2-ch, 1920 x 1200 @ 60Hz)	
1x HDMI (on rear, 1920 x 1080 @ 60Hz)	
1x VGA (by header, 2560 x 1600 @ 60Hz)	
Multiple Display	
Dual	
Audio Chipset	
Realtek ALC662	
Audio Interfaces	
2x Speaker-out (3W)	
1x Line-out (on rear)	
1x Mic-in (on rear)	
Ethernet	
2x LAN (RJ-45 on rear, Realtek RTL8111G)	
USB	
1x USB3.0 (Type A on rear)	
5x USB2.0 (4x Type A on rear, 1x by header)	
Serial Ports	
2x RS-232/422/485 (DB9 on rear, w/ power selection)	
4x RS-232 (by header, w/ power selection)	
Other I/O Ports	
1x PS/2 Keyboard / Mouse (by header)	
1x Parallel Port (by header)	

Storage & Expansion	
1x SATA	
1x mSATA (full size)	
2x mPCIe (1x full size, 1x half size)	
1x SIM Card Cage (optional)	
Power Supply	
Connector: Lockable DC Jack (on rear), 2x2-pin ATX Connector	
Input Voltage: DC 12V ~ 24V (DC Jack), DC 12V (ATX Connector)	
Firmware	
BIOS: AMI uEFI BIOS w/ 64Mb SPI Flash	
Watchdog: Programmable WDT to generate system reset event	
H/W Monitor: Voltages, Temperatures	
Real Time Clock: SoC integrated RTC	
TPM: optional (Infineon SLB 9635 TPM 1.2)	
System Control & Monitoring	
1x Header for Reset button, HDD LED & External Speaker	
1x Header for Power button, Power LED, Keyboard Lock & SM bus	
1x Header for mPCIe activity LED	
Cooling	
1x Wafer for CPU Smart Fan	
1x Wafer for System Smart Fan	
OS Support	
Windows 7, Windows 8, Linux	
Dimensions (L x W)	
Mini-ITX (170 x 170 mm / 6.70" x 6.70")	
Environmental Characteristics	
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	

KEMX-1702 Rear I/O



Ordering Information

Article	Description
KEMX-1702	Mini-ITX CPU Board, Intel® Atom™ BayTrail Dual Core E3825 Processor, 1x DDR3L SODIMM up to 4GB, 2 x GbE LANs, 2x mini-PCIe, 6 x COMs, 1x VGA, 1x HDMI, 5x USB 2.0, and 1x USB 3.0