

MITX-SLS0 Series

Standard / Extended Temperature
Industrial Motherboard in Mini-ITX Form Factor
with 6th Generation Intel® Core™ i Processor



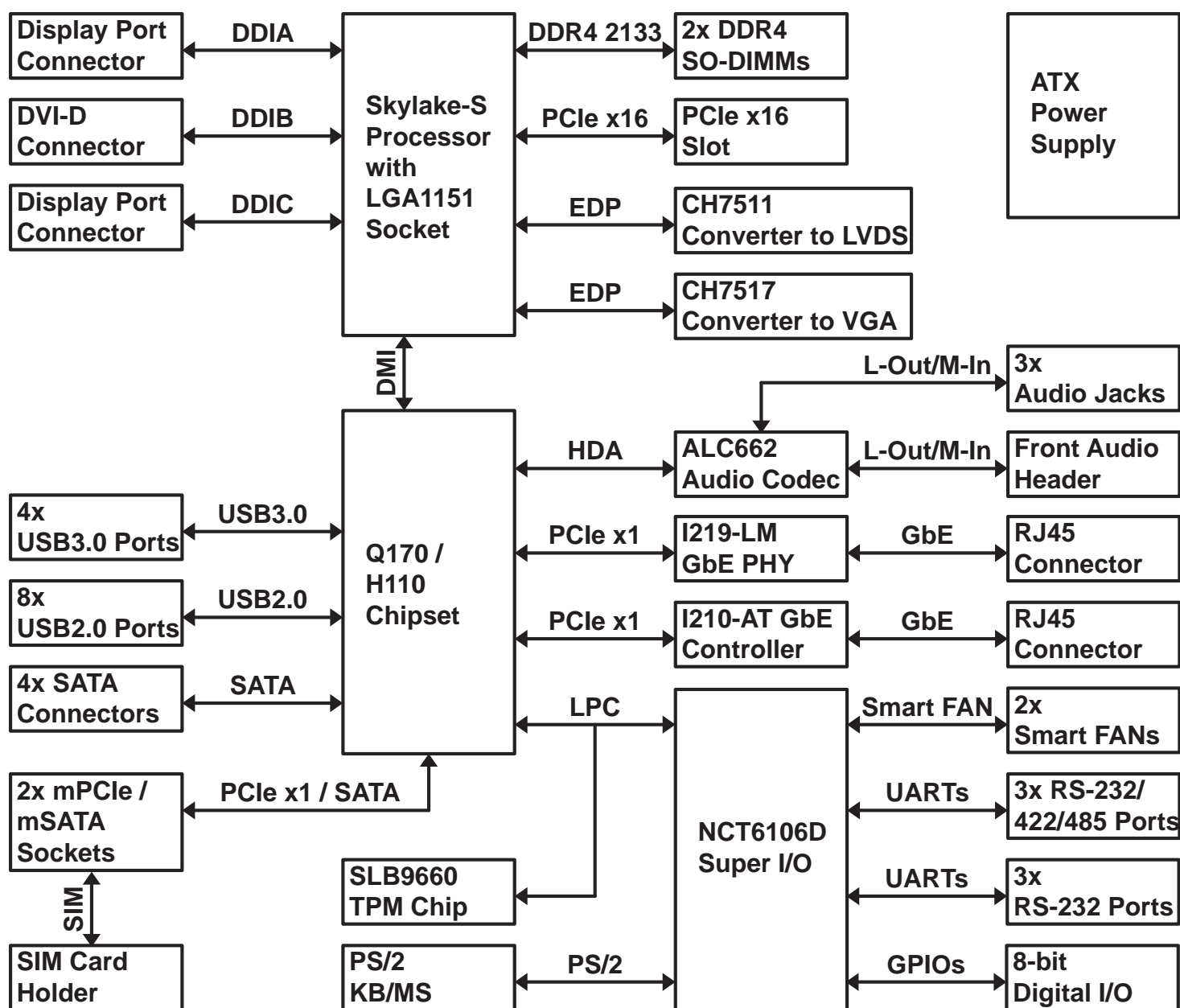
- LGA1151 Socket 6th Generation Intel® Core™ i Processor
- Intel® H110 / Q170 Chipset
- 2x DDR4 SO-DIMM Socket up to 32GB
- 1x DVI-D, 2x DP, 1x VGA / 1x LVDS
- 2x LAN, 4x/6x USB3.0, 4x/6x USB2.0, 6x COM, 8-bit DIO
- 4x SATA, 1x PCIe x16, 2x mPCIe or 2x mPCIe/mSATA
- RAID support (MITX-SLS1/T only)
- Extended temperature model support: -20°C ~ 70°C

Product Overview

The MITX-SLS0 series is a Mini-ITX form factor industrial-grade motherboard equipped with Intel®'s latest powerful 6th Generation Skylake Core™ i Processor. It delivers greatly improved graphics performance, power efficiency and wireless connectivity in comparison with the models powered by the previous generation processors. Thus, it allows developers to easily make a thinner and fanless system.

In addition to 1x DVI-D, 2x DP, 1x VGA / 1x LVDS, up to 6x USB3.0, up to 6x USB2.0, 6x COM, 8-bit DIO and 2x LAN for display support, peripheral applications and wired networking, it has a variety of expansion slots /sockets for wireless, storage or other function expansion, including PCIe x16, mPCIe, SIM, SATA and mSATA slots / sockets.

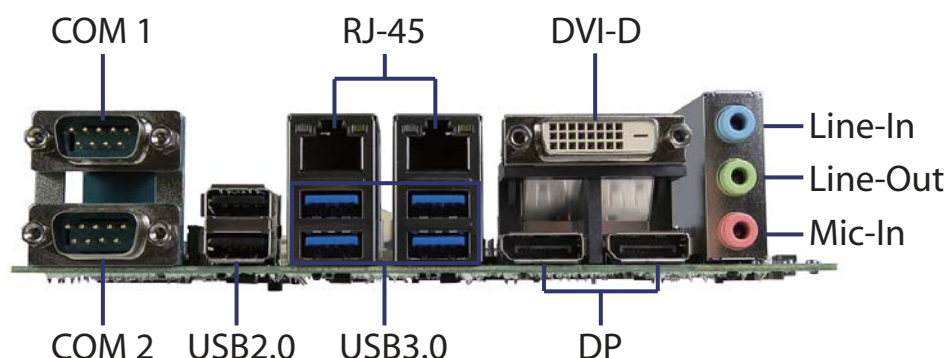
Block Diagram



Technical Information

CPU Support	FCLGA1151 Socket 6th Generation Intel® Core™ i Processor (Dual / Quad Core, 3M ~ 8M Cache, 2.20 ~ 4.20 GHz, 35W ~ 91W TDP)
Chipset	MITX-SLS0: Intel® H110 MITX-SLS1/T: Intel® Q170
Memory	2x DDR4 1866/2133 SO-DIMM up to 32GB
Graphic Controller	Intel® HD Graphics 530 / 510
Display Interfaces	1x LVDS (24-bit, 2-ch, 1920 x 1200 @ 60Hz) 1x VGA (by header, 1920 x 1200 @ 60Hz) 1x DVI-D (on rear, 2560 x 1600 @ 60Hz) 2x DP (on rear, 4096 x 2304 @ 60Hz)
Multiple Display	Triple (LVDS and VGA are alternative each other)
Audio Chipset	Realtek ALC662
Audio Interfaces	1x Line-in (on rear) 2x Line-out (1x on rear, 1x by header) 2x Mic-in (1x on rear, 1x by header) 1x S/PDIF (by header)
Ethernet	2x LAN (RJ-45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)
USB	4x USB3.0 (Type A on rear, MITX-SLS0) 6x USB3.0 (4x Type A on rear, 2x by header, MITX-SLS1/T) 4x USB2.0 (2x Type A on rear, 2x by header, MITX-SLS0) 6x USB2.0 (2x Type A on rear, 4x by header, MITX-SLS1/T)
Serial Ports	3x RS-232/422/485 (2x DB9 on rear, 1x by header) 3x RS-232 (by header)
Other I/O Ports	1x PS/2 Keyboard/Mouse (by wafer) 1x 8-bit DIO (by wafer)
Storage & Expansion	4x SATA (RAID support for MITX-SLS1/T) 2x mSATA / mPCIe (1x full size, 1x half size, MITX-SLS1/T) 2x mPCIe (1x full size, 1x half size, MITX-SLS0) 1x PCIe16 1x SIM Card Cage (by wafer)
Power Supply	2x12-pin ATX connector (DC +5V / -5V / +12V / -12V / +3.3V / 5VSB) 2x2-pin ATX connector (DC 12V)
Firmware	BIOS: AMI uEFI BIOS w/ 128Mb SPI Flash Watchdog: Programmable WDT to generate system reset event H/W Monitor: Input & Core Voltages, CPU & System Temperatures Real Time Clock: Chipset integrated RTC TPM: for MITX-SLS1/T (Infineon SLB 9660 TPM 1.2) iAMT: for MITX-SLS1/T
System Control & Monitoring	1x Header for Reset button, HDD LED & External Speaker 1x Header for Power button, Power LED & SM bus 1x Header for LAN LED 1x Header for Port-80 Display
Cooling	1x Wafer for CPU Smart Fan 1x Wafer for System Smart Fan
OS Support	Windows 7, Windows 8, Windows 10, 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 (Standard) -20°C ~ 70°C / -4°F ~ 158°F (Extended) Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F (Standard) -40°C ~ 85°C / -40°F ~ 185°F (Extended) Humidity: 0% ~ 95%
Certification	CE, FCC Class A

MITX-SLS0 Series Rear I/Os



Ordering Information

Article	Part No.	Description
MITX-SLS0	BMTXSLS0-000000T	LGA1151 Socket Intel® Skylake Core™ i Processor, Intel H110 Chipset , 1x DVI-D, 2x DP, 1x VGA / 1x LVDA, 2x LAN, 4x USB3.0, 4x USB2.0 , 6x COM, 8-bit DIO, 1x PS/2, 4xSATA, 2x mPCIe , 1x PCIe16, w/o iAMT, w/o RAID support , Op. temp.: 0°C ~ 60°C
MITX-SLS1	BMTXSLS0-010000T	LGA1151 Socket Intel® Skylake Core™ i Processor, Intel Q170 Chipset , 1x DVI-D, 2x DP, 1x VGA / 1x LVDS, 2x LAN, 6x USB3.0, 6x USB2.0 , 6x COM, 8-bit DIO, 1x PS/2, 4xSATA, 2x mPCIe / mSATA , 1x PCIe16, w/ iAMT, w/ RAID support , Op. temp.: 0°C ~ 60°C
MITX-SLS1T	BMTXSLST-010000T	LGA1151 Socket Intel® Skylake Core™ i Processor, Intel Q170 Chipset , 1x DVI-D, 2x DP, 1x VGA / 1x LVDS, 2x LAN, 6x USB3.0, 6x USB2.0 , 6x COM, 8-bit DIO, 1x PS/2, 4xSATA, 2x mPCIe / mSATA , 1x PCIe16, w/ iAMT, w/ RAID support , Op. temp.: -20°C ~ 70°C

