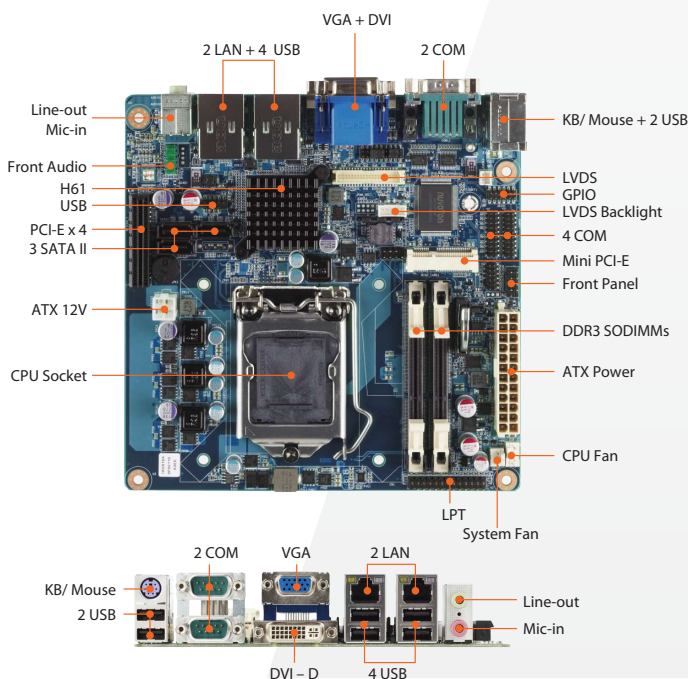


SmITX-H61

Intel® H61 with Intel Xeon™ E3-1275/ E3-1225 Mini-ITX Motherboard



Features

- Intel H61 Express Chipset supports up to Intel Xeon E3 series CPU running with scalable cost-optimized performance
- Intel LGA1155 Socket supports cross compatible with 22nm/ 32nm Intel Core™ i7/ i5/ i3 desktop processor
- Two 204-pin SODIMM sockets support up to 16GB DDR3 1333/ 1066 SDRAM
- Intel GMA HD 3000 supports DirectX 10.1, Shader Model 4.1 and OpenGL 3.0
- Supports Multiple Dual Display Functions : VGA, LVDS, DVI
- Realtek ALC892 supports 5.1 Channel HD Audio
- 1 PCI-E x 4, 1 Mini PCI-E
- 8 USB 2.0, 2 COM, 3 SATA II
- 8-bit GPIO

Specifications

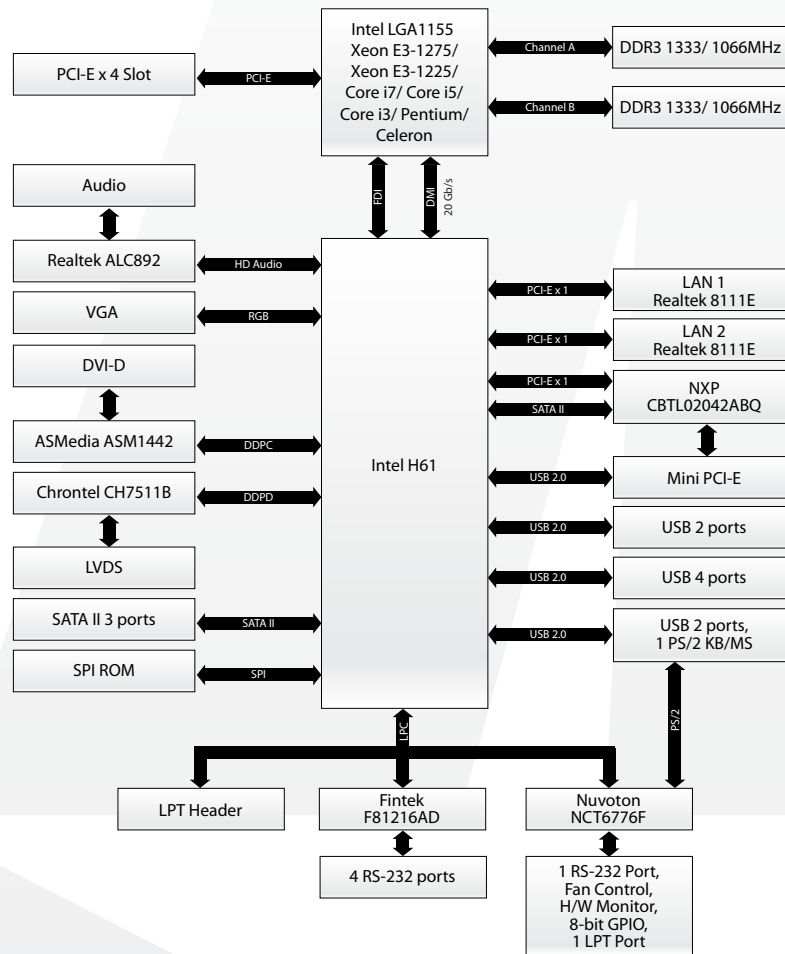
System	
CPU	Intel LGA1155 Socket supports 22nm/ 32nm Intel Xeon E3-1275/ Xeon E3-1225/ Core i7/ Core i5/ Core i3/ Pentium®/ Celeron® desktop CPU
BIOS	AMI 32Mb SPI ROM
System Chipset	Intel H61
I/O Chip	Nuvoton NCT6776F
Memory Type	Two 204-pin SODIMM support up to 16GB dual channel DDR3 1333/1066 SDRAM, Non-ECC
Watchdog Timer	Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring temperature, voltage and cooling fan status. Auto throttling control when CPU overheats
Expansion	1 PCI-E x 4, 1 Mini PCI-E
Power State	S1, S3, S4, S5
Wake up on LAN or Ring	LAN (WOL, PXE)
Smart Fan Control	Yes
I/O	
MIO	4 COM RS-232 (Internal), 2 COM RS-232 (Rear), 3 SATA II, 1 DVI, 1 VGA, 1 LVDS, 1 LVDS Backlight, 2 LAN, 1 PS/2 Keyboard/ Mouse
USB	8 USB 2.0 (6 Rear, 2 Internal)
GPIO	8-bit General Purpose I/O for 4-bit DI and 4-bit DO

Display	
Chipset	Intel GMA HD 3000
Video Memory	Shared Memory, up to 256MB
Dual Display	VGA + LVDS, VGA + DVI, LVDS + DVI
VGA	Onboard, supports max resolution 2048 x 1536 (@75Hz)
LVDS	Onboard 24-bit LVDS, supports max resolution 1920 x 1200
LVDS Backlight	Yes, through internal LVDS Backlight Connector
DVI	Onboard DVI-D, supports max resolution 1920 x 1200

Audio	
Audio Codec	Realtek ALC892, 5.1Channel HD Audio
Audio Interface	Line-out, Mic-in, Front Audio Header

Ethernet	
LAN 1	Realtek 8111E Gigabit Ethernet
LAN 2	Realtek 8111E Gigabit Ethernet

Block Diagram



Back Panel I/O Port

- 1 PS/2 Keyboard/ Mouse Port + 2 USB 2.0 Ports
- 2 COM RS-232 Ports
- 1 VGA Port
- 1 DVI Port
- 4 USB 2.0 Ports
- 2 LAN RJ45 Ports
- 1 Audio I/O (2 Jacks)

Internal I/O Connector

- 1 USB Connectors support 2 USB Ports
- 4 COM RS-232 Connectors
- 3 SATA Connectors
- 1 Front Audio Connector
- 1 Front Panel Connector
- 1 CPU Fan Connector
- 1 System Fan Connector
- 1 Mini PCI-E Connector
- 1 LPT Connector
- 1 LVDS Connector
- 1 LVDS Backlight Power Connector
- 1 PCI-E x 4 Connector

Power

Power Requirement	+12V 21A	+5V 10A	+3.3V 4.5A	-12V 0.3A	5VSB 2A
Power Type	ATX (supports AT Mode)				
Power Connector	1 24-pin ATX Power Connector, 1 4-pin ATX 12V Power Connector				

Mechanical & Environmental

Operating Temperature	0°C to 60°C (32°F to 140°F)
Operating Humidity	0% to 90% relative humidity, non-condensing
Size (L x W)	6.69" x 6.69" (170 x 170 mm)
Weight	0.88 lbs (0.4 Kg)