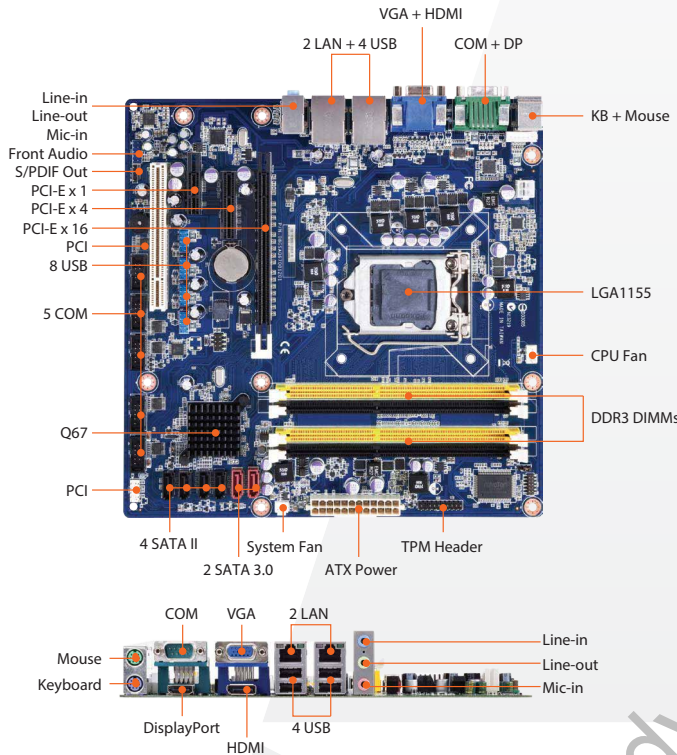


IQ67-ML

Intel® Q67 with Intel Core™ i7/ Core i5/ Core i3 Micro-ATX Motherboard



Features

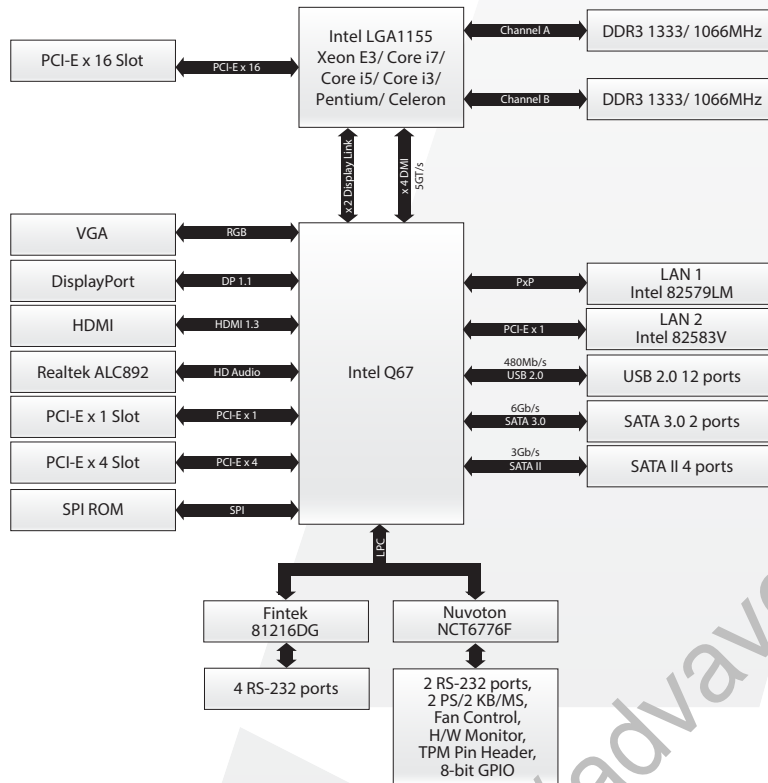
- Intel LGA1155 socket supports 22nm/ 32nm Intel Xeon® E3/ Core i7/ Core i5/ Core i3 desktop CPU
- Intel Q67 Chipset
- Intel HD P3000/ 4000 graphics engine supports up to DirectX 11, Shader Model 4.1, OpenGL 3.0 and multiple dual display functions
- Four 240-pin DIMM sockets support up to 16GB dual channel 1066/1333 MHz DDR3 SDRAM
- Realtek ALC892 supports 5.1 Channel HD Audio
- Dual Intel Gigabit LAN : Intel 82579LM (LAN 1), Intel 82583V (LAN 2)
- 1 PCI-E x 16, 1 PCI-E x 4, 1 PCI-E x 1, 1 PCI
- 2 SATA 3.0 and 4 SATA II support AHCI, RAID 0, 1 and TPM 1.2 (optional)
- 6 COM, 12 USB 2.0
- 8-bit GPIO

Specifications

System	
CPU	Intel LGA1155 socket supports 22nm/ 32nm Intel Xeon E3/ Core i7/ Core i5/ Core i3/ Pentium®/ Celeron® desktop CPU
BIOS	AMI 16Mb SPI
System Chipset	Intel Q67
I/O Chip	Nuvoton NC15776F
System Memory	Four 240-pin DIMM sockets support up to 16GB dual channel DDR3 1066/ 1333 SDRAM
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 16, 1 PCI-E x 4, 1 PCI-E x 1, 1 PCI
Power State	S1, S3, S4, S5
Wake up on LAN or Ring	LAN (WOL) and Ring (WO)
SmartFan Control	Yes
I/O	
MIO	6 COM RS-232, 2 SATA 3.0, 4 SATA II, 1 HDMI, 1 DisplayPort, 1 VGA, 2 LAN, 1 PS/2 Keyboard, 1 PS/2 Mouse
USB	12 USB 2.0 (4 Rear, 8 Internal)
GPIO	8-bit General Purpose I/O for 4-bit DI and 4-bit DO

Display	
Chipset	- Intel HD P3000 (Xeon E3 Series CPU) - Intel HD 4000/ 2500 (22nm CPU) - Intel HD 3000/ 2000 (32nm CPU)
Display Memory	Shared Memory, up to 1.7GB
Dual Display	VGA + DisplayPort, VGA + HDMI, HDMI + DisplayPort
VGA	Onboard, supports max resolution 2048 x 1536 (@60Hz)
HDMI	Onboard HDMI 1.3, supports max resolution 1920 x 1080
DisplayPort	Onboard, supports max resolution 1920 x 1080
Audio	
Audio Codec	Realtek ALC892 supports 5.1 Channel HD Audio
Audio Interface	Line-in, Line-out, Mic-in, S/PDIF Out, Front Audio Header
Ethernet	
LAN 1	Intel 82579LM Gigabit LAN
LAN 2	Intel 82583V Gigabit LAN

Block Diagram



CPU Support List

22nm		32nm	
i7-3770K	3.5GHz	E3-1275	3.4GHz
i7-3770	3.4GHz	E3-1225	3.1GHz
i7-3770S	3.1GHz	i7-2700K	3.5GHz
i7-3770T	2.5GHz	i7-2600S	2.8GHz
i5-3570K	3.4GHz	i5-2500K	3.3GHz
i5-3550	3.3GHz	i5-2400	3.1GHz
i5-3450	3.1GHz	i3-2125	3.3GHz
i5-3550S	3GHz	Pentium-G630	2.7GHz
i5-3570T	2.5GHz	Celeron-G555	2.7GHz
i3-3240	3.4GHz	Celeron-G460	1.8GHz
i3-3220	3.3GHz		

Back Panel I/O Port

- 1 VGA Port
- 1 HDMI Port
- 1 DisplayPort
- 1 COM RS-232 Port
- 4 USB 2.0/1.1 Ports
- 2 LAN RJ45 Ports
- 1 Audio I/O (3 Jacks)

Internal I/O Connector

- 4 USB Connectors support 8 USB Ports
- 5 COM RS-232 Connectors
- 6 SATA Connectors
- 1 Front Audio Header
- 1 CPU Fan Connector (4-pin)
- 1 System Fan Connector (3-pin)
- 1 Chassis Fan Connector (3-pin)
- 1 GPIO Header
- 1 TPM Pin Header (20-pin)

Mechanical & Environmental

Power Requirement	+12V	+5V	+3.3V	5VSB
	5.51A	1.466A	2.09A	0.6A

Power Type ATX (supports AT Mode)

Power Connector 1 24-pin ATX Power Connector, 1 4-pin ATX 12V Power Connector

Operating Temperature 0 to 60°C (32 to 140°F)

Operating Humidity 0% to 90% relative humidity, non-condensing

Size (L x W) 9.6" x 9.6" (244 x 244 mm)

Weight 1.35 lbs (0.6 Kg)