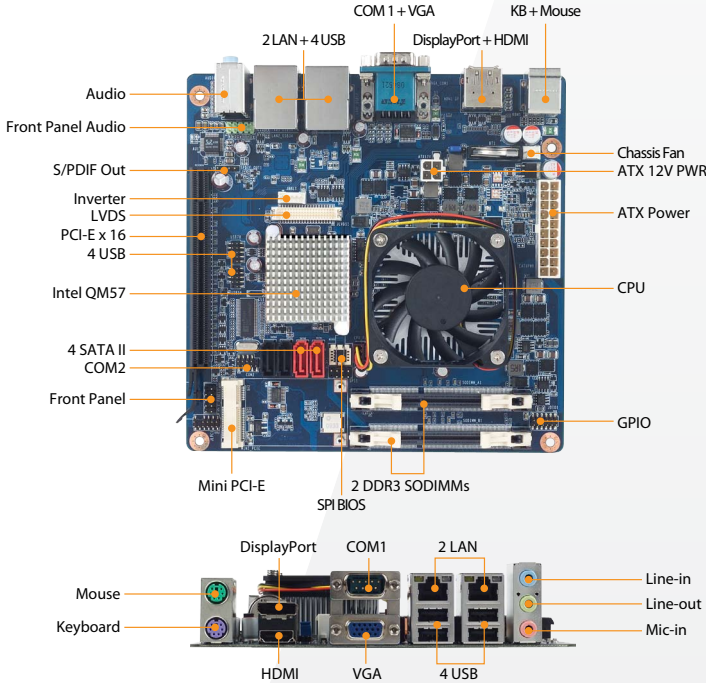


DS3690-CPA

Intel® QM57 with Core™ i7/ i5 Mini-ITX Motherboard



Features

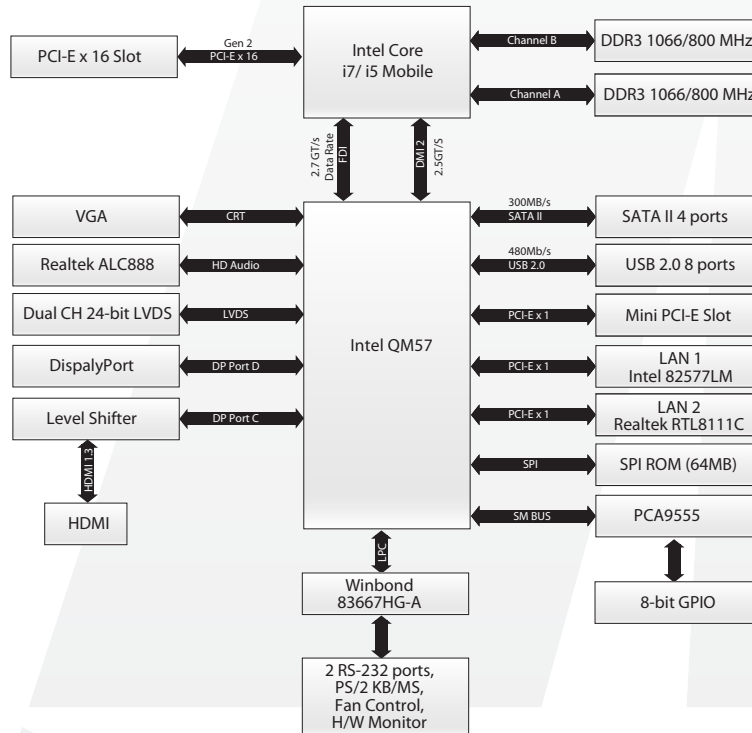
- Supports Intel Core i7/ i5 Mobile CPU
- Intel QM57 Chipset
- Two SODIMM supports up to 8GB dual channel 1066/ 800MHz DDR3 SDRAM
- Intel GMA HD supports Multiple Dual Display Functions : VGA + LVDS, VGA + DisplayPort, VGA + HDMI
- Supports RAID 0, 1, 5, 10
- Realtek ALC888 supports 5.1 + 2 Channel with Multiple Streaming HD Audio
- Advanced Intel 82577LM Gigabit LAN chip supports iAMT Function
- 1 PCI-E x 16 (PEG & SDVO), 1 Mini PCI-E
- 2 COM with Power, 8 USB 2.0, 4 SATA II

Specifications

System	
CPU	Intel Core i7/ i5 Mobile CPU
BIOS	Insyde uEFI 64Mb SPI BIOS
System Chipset	Intel QM57
I/O Chip	Winbond W83667HG-A
System Memory	Two 204-pin SODIMM support up to 8GB dual channel DDR3 1066/ 800 SDRAM
Watchdog Timer	Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring CPU temperature, voltage and cooling fan status. Auto throttling control when CPU overheats.
Expansion	1 PCI-E x 16 (PEG & SDVO), 1 Mini PCI-E
Power State	S1, S3, S4, S5
Wake up on LAN or Ring	LAN (PXE), Ring
Smart Fan Control	Yes
I/O	
MIO	4 SATA II, 2 COM RS-232 with Power, 1 VGA, 1 LVDS, 1 HDMI, 1 DisplayPort, 2 LAN, 1 PS/2 Keyboard, 1 PS/2 Mouse
USB	8 USB 2.0 (4 Rear, 4 Internal)
GPIO	8-bit General Purpose I/O for 4-bit DI and 4-bit DO

Display	
Chipset	Intel QM57
Display Memory	Intel GMA HD supports DVMT 5.0
Max Resolution	2048 x 1536 (@75Hz)
Dual Display	VGA + LVDS, VGA + DisplayPort, VGA + HDMI
VGA	Onboard
LVDS	Onboard, dual channel 24-bit LVDS
LVDS Backlight	Yes
DVI	No, need DVI Dongle (from DP/ HDMI Connector)
HDMI	Onboard, HDMI 1.3
DisplayPort	Onboard
Audio	
Audio Codec	Realtek ALC888, 5.1 + 2 Channel HD Audio
Audio Interface	Line-in, Line-out, Mic-in
Ethernet	
LAN 1	Intel 82577LM Gigabit LAN supports iAMT
LAN 2	Realtek RTL8111C Gigabit LAN

Block Diagram



Back Panel I/O Port

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

Internal I/O Connector

- 2 USB Connectors support 4 USB Ports
- 1 LVDS Connector
- 1 Backlight Connector
- 4 SATA Connectors
- 1 CPU Fan Connector
- 1 Chassis Fan Connector
- 1 Front Panel Connector
- 1 COM RS-232 Connector
- 1 GPIO Connector
- 1 Front Audio Connector

Power

Power Requirement	+12V	+5V	+3.3V	5VSB
	1.66A	3.51A	1.08A	570mA

Power Type ATX

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 1.03 lbs (0.47 Kg)