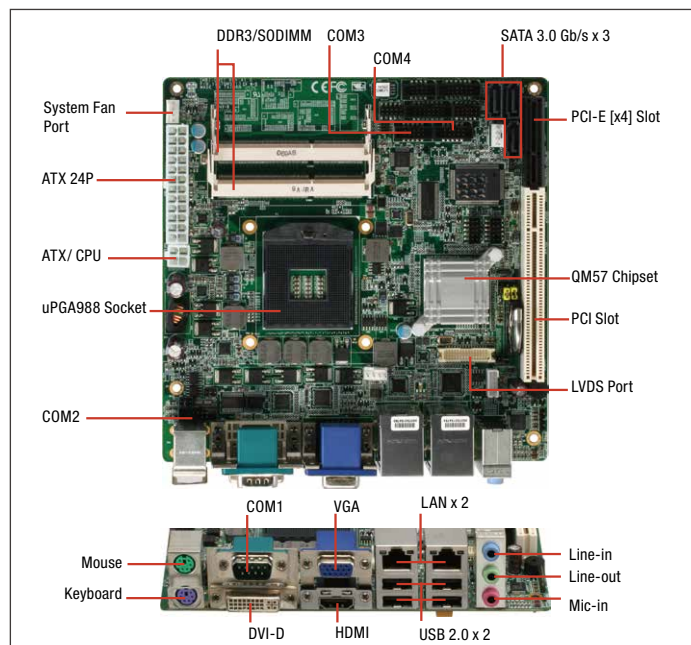


## Industrial Motherboard with Intel® Core™ i7/i5 Mobile Processor



## Specifications

System	
Processor	Socket Intel® Core i rPGA988 Processor
Chipset	Intel® QM57
Memory	Dual-Channel with 204-pin SDRAM x 2, DDR3 1066/800, up to 8GB
Graphics	Intel® Graphics
I/O Chipset	ITE IT8728F
Ethernet	Intel® 82577LM / 82574L, Gigabit LAN x 2
Audio	Realtek® ALC888
TPM	—
Expansion Slots	PCIe [x4] x 1, Mini-PCIe x 1, PCI x 1, CF x 1
BIOS	AMI BIOS - 64MB ROM
H/W Monitor	Supports System temperature, Voltage, and Cooling fan status monitoring
WatchDog Timer	System Reset: 1~255 steps programmable
Smart Fan Control	CPU Fan/Chassis Fan
Wake On LAN/ PXE	Yes
Power State	S3,S4,S5
Graphics	
Graphics Chipset	Intel® Core™i7/i5 + QM57
Graphics Multi Display	VGA+HDMI, VGA + LVDS, VGA+DVI, HDMI+DVI, HDMI+LVDS, DVI+LVDS
VGA	1
DVI	1
HDMI	1
Display Port	—
LVDS	1
eDP	—
Backlight Control	Voltage
Environment & Power & ME	
Battery	Lithium Battery
Power Requirement	12V DC
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Operating Humidity	0% ~ 90% R/H, non-condensing
Certificate	CE/FCC
Form Factor	Mini-ITX 6.7" x 6.7" (170mm x 170mm)
Weight	1.32 lb(0.6 kg)
MTBF	56,000
Rear Panel I/O Ports	
USB	USB 2.0 x 4
Display I/O	HDMI x 1, DVI-D x 1, VGA x 1
Audio I/O	Line-in, Mic-in, Line-out

## Features

- Intel® Core™ i7/i5 rPGA988 (32/45nm) Processor Integrated Graphics & Memory Controller
- Intel® QM57
- Dual-Channel DDR3 800/1066 MHz SODIMM x 2, Up to 8 GB
- Intel® Gigabit Ethernet x 2, Support Intel® iAMT 6.0
- Dual View with VGA, DVI, HDMI, LVDS
- SATA 3.0 Gb/s x 3, RAID 0, 1, 5, 10
- USB 2.0 x 8, COM x 4
- PCI-Express [x4] x 1, Mini-PCIe x 1, PCI x 1



LAN I/O	RJ-45 x 2
Serial Port	RS-232 x 1
PS/2 Port	Mini-Din PS/2 K/B and Mouse x 1
Others	—
Internal I/O Connectors	
Storage	SATA 3.0 Gb/s x 3, Support RAID 0,1,5,10
USB	USB 2.0 x 4
Display I/O	LVDSx1
Audio I/O	—
Serial Port	RS-232 x 2, RS-232/422/485 x 1
PS/2 Port	—
Parallel Port	—
DIO	8-bit programmable (4-in/4-out)
FAN	CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 1
Power	24-pin ATX connector x 1, 4-pin connector x 1
Others	—
OS	
OS Support	Windows® XP, Windows® 7 32/64-bit, Linux Fedora

## Packing List

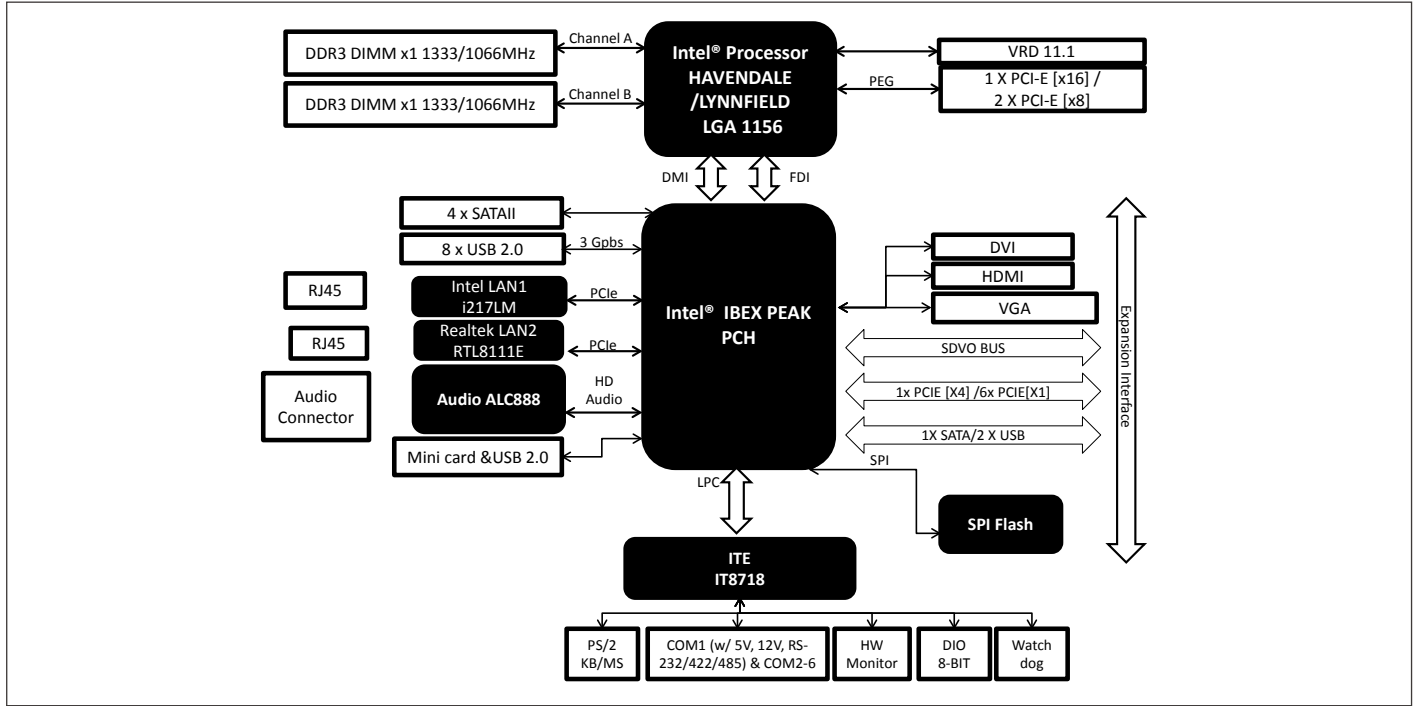
- 1709070800  
SATA Signal Cable
- 1701100305  
COM Port Cable with DB-9
- 1709100201  
USB Cable
- M20QM57000  
I/O Shield
- Product DVD
- IMBI-QM57

## Optional Accessories

- 1759200170  
CPU Cooler for rPGA988 CPU, TDP 35W
- TF-PER-1110-A10  
Riser Card for PCI, 2-slot
- TF-PER-R16P-A10  
Riser Card, PCI + PCI-E[x4]

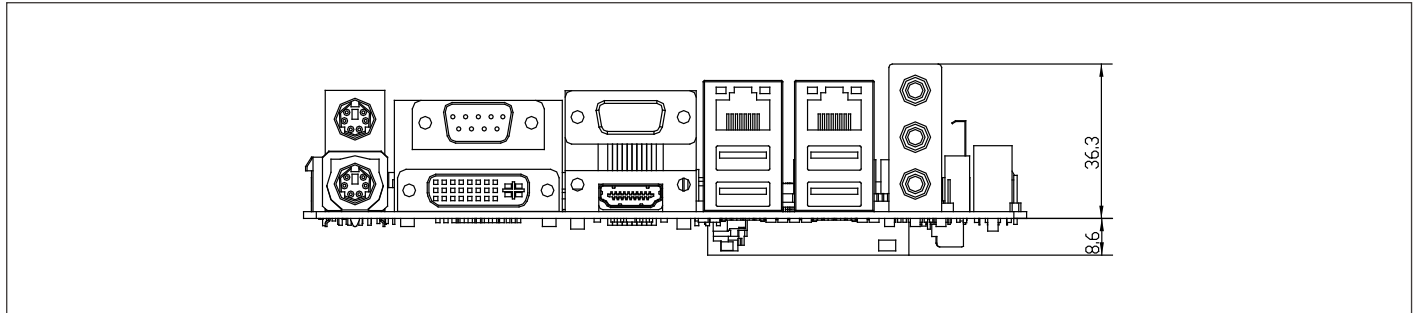
# IMBI-QM57

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

Part number	CPU	RAM	Fan/Fanless	Display	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	TPM	Temp.
TF-IMBI-QM57-A20	Socket	DDR3 8GB	Fan	VGA/DVI-D/HDMI	SATA2 x 3, CF x 1	GbE x 2	USB 2.0 x 8	3	1	PCIe [x4] x 1, mPCIe x 1, PCI x 1	+12V DC	-	32°F ~ 140°F (0°C ~ 60°C)