ITX-i77M0

Intel® 3rd/ 2nd Gen. Core™ Embedded Mini-ITX Motherboard



Features

- Support Intel® rPGA988 3rd/ 2nd Gen. Core™ Processors
- Dual Gigabit Ethernet Ports
- Support Dual Independent Displays
- Support RS-485 Auto-flow Control
- Intel® AMT8.0; RAID 0, 1, 5, 10
- USB 3.0 Supported
- **Extended Operating Temp.: -20 ~ 70°C**

System

CPU	Support 3rd/ 2nd Generation Intel® Core™ i7/i5/i3 processors in rPGA988 (Socket G2)
Memory	2 x 204-pin DDR3 SO-DIMM sockets, supporting 1333/1600MHz SDRAM up to 16GB
Chipset	Intel® PCH QM77
BIOS	AMI BIOS
Watchdog Timer	1~255 levels reset

I/O

I/O Chip	Fintek F71869ED
Serial Port	5 x RS-232 ports
	1 x RS-232/422/485 selectable port w/ RS-485 auto-flow control
USB Port	4 x USB 3.0/2.0 compatible ports
	8 x USB 2.0 ports
KB/MS	1 x 6-pin wafer connector for PS/2 keyboard and mouse
Digital I/O	1 x 16-bit programmable Digital Input/Output
Expansion Bus	1 x PCIe x16 slot
	1 x Mini-card socket
Storage	2 x Serial ATA ports with 600MB/s HDD transfer rate
	4 x Serial ATA ports with 300MB/s HDD transfer rate
Ethernet Chipset	1 x Intel® 82579LM PCIe GbE PHY w/ iAMT
	1 x Intel® 82583V PCIe GbE controller
Audio Interface	Realtek ALC886 HD Audio Codec, Mic-in/Line-in/Line-out

Display

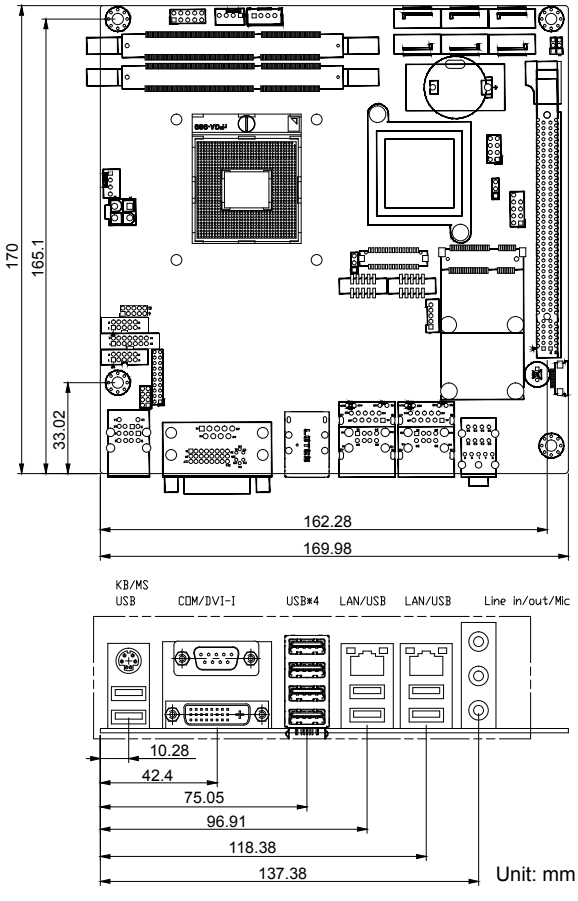
Graphics Chipset	Integrated Intel® HD Graphics 2500 or HD Graphics 4000
Graphics Interface	1 x DVI-I connector, supporting either Analog RGB or DVI, resolution up to 2048 x 1536 for Analog RGB or 1920 x 1200 for TMDS
	Support Dual Channels 24-bit LVDS, resolution up to 1600 x 1200

Recommended CPU List:
Intel® 3rd Generation
i7-3610QE 2.3GHz Core™ Processor
i5-3610ME 2.7GHz Core™ Processor
i3-3120ME 2.4GHz Core™ Processor
Intel® 2nd Generation
i7-2710QE 2.1GHz Core™ Processor
i5-2510E 2.5GHz Core™ Processor
i3-2330E 2.2GHz Core™ Processor
B810 1.6GHz Celeron® Processor

Mechanical & Environmental

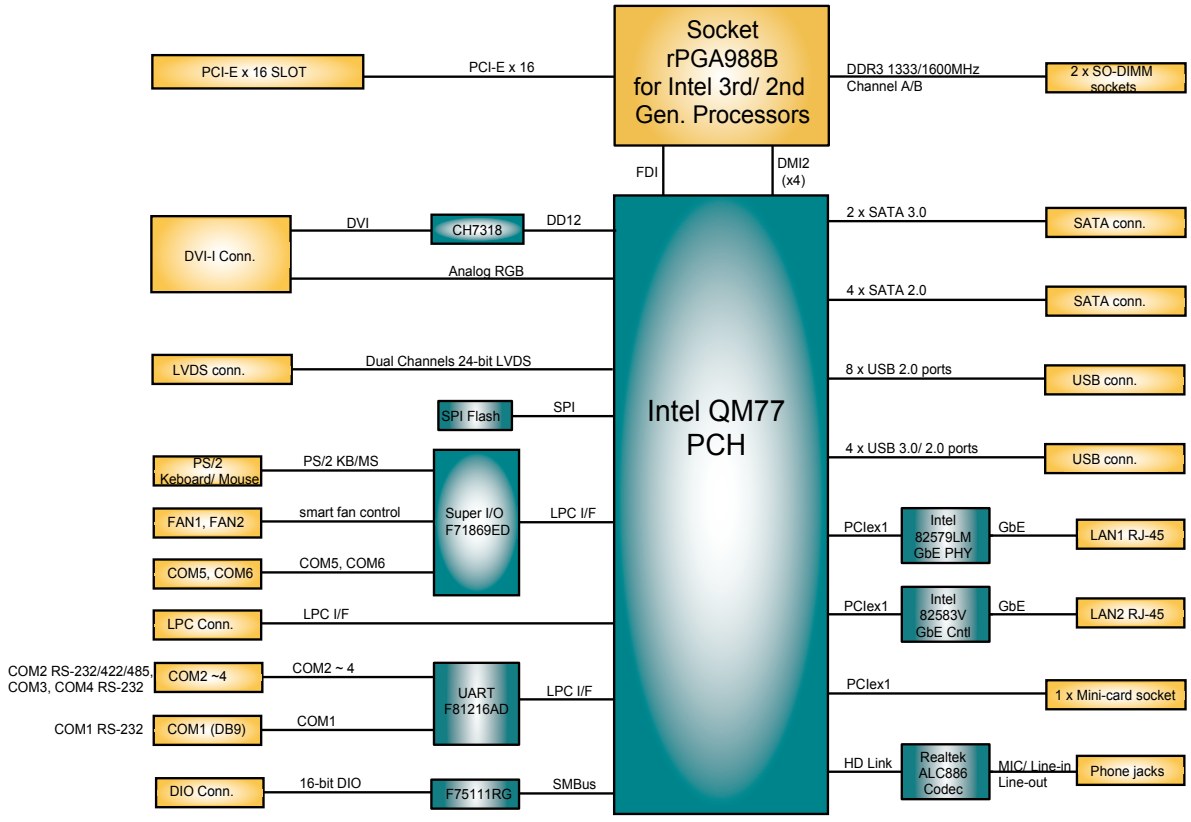
Power Requirement	DC12V input only
Power Consumption	4.3A@+12V with i7-3610QE (Typical)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimensions (L x W)	170 x 170 mm (6.7" x 6.7")

Dimensions



All specifications are subject to change without notice.

Block Diagram



Ordering Information

ITX-i77M0	Intel® Ivy Bridge rPGA988 socket Core™ i7/i5/i3, Celeron® embedded Mini-ITX motherboard

Optional Accessories

CPF-67M0-C1	CPU Cooling Fan for rPGA988 CPU
CBK-11-67M0-00	Cable kit • 2 x Two ports COM cables • 1 x COM Flat cable • 1 x USB cable • 2 x SATA cables • 1 x SATA Power cable