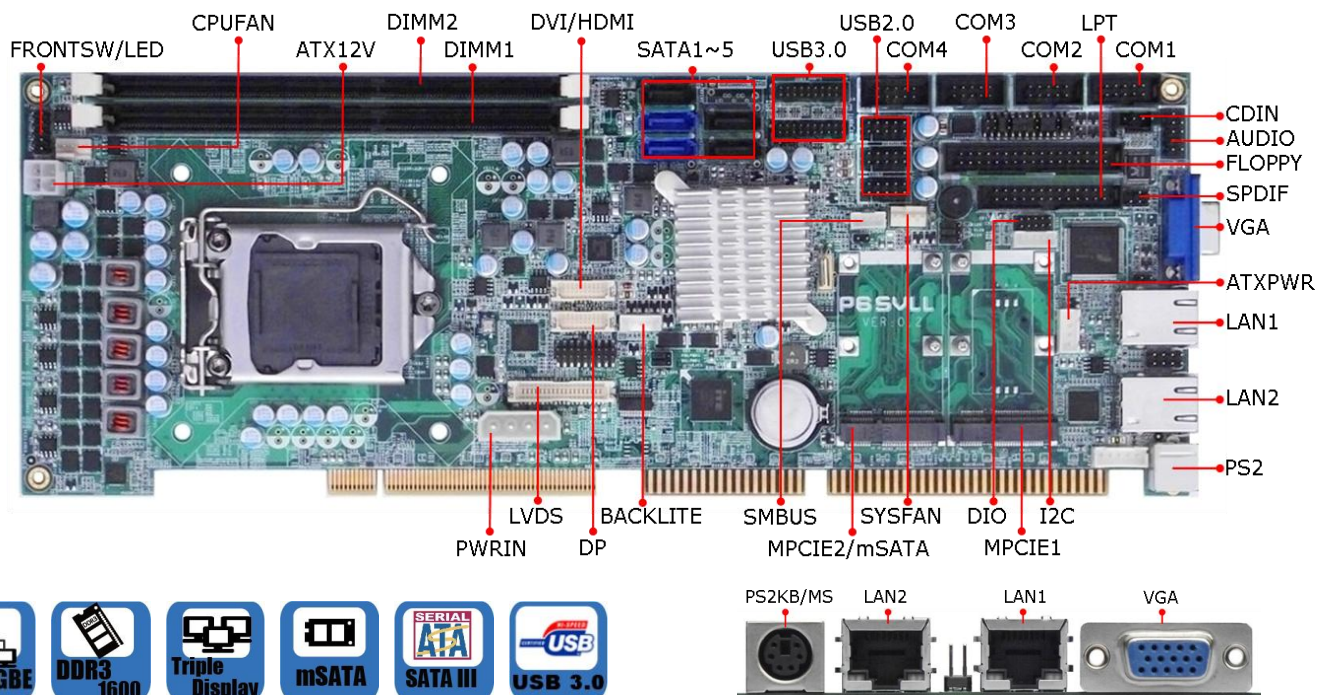# SBC-Q77P6 Intel®Core™i3/5/7/Xeon Q77 PICMG 1.0 SBC

Specifications

Processor Support
- Intel® Core™ i7/i5/i3/ Xeon®/ Pentium®/ Celeron® processor.
- LGA1155 socket.

BIOS
- uEFI BIOS.
- 64Mbit FlashROM with DOS and Windows update utility support.

System Memory
- Two DDR3 DIMM sockets with dual channel mode support.
- Supports DDR3 1600/1333 memory up to 16.0 GB.

Chipset
- Intel Q77 chipset.

Video
- Intel ® Core i processors integrated graphics engine.
- One D-Sub connector on bracket for CRT display.
- One 20-pins connector for HDMI/DVI display.
- One 20-pins connector for Display Port display.
- One 40-pins connector to support up to dual-24bits LVDS LCD.

10/100M/1000M Ethernet
- Intel ® 82579LM and Intel ® 82574L dual gigabit Ethernet controllers with Dual RJ45 on bracket.
- Support Wake-on-LAN, teaming, fault-tolerance and remote boot.
- Support AMT 8.0.

On Board I/O
- Four serial ports as COM1~COM4. COM1 is RS232/422/485 selectable by jumper with auto-flow control.
- One Parallel port supports SPP/ECP/EPP mode.
- One Floppy, PS2 KB and MS, 8bits DIO, SMbus interface.

SATA
- Two SATA-III and four SATA-II ports support IDE, AHCI, RAID.

Mini-PCIE & PCI
- Two Mini-PCIE sockets. One supports mSATA by jumper.
- Supports PCI slots backplane compliant to PICMG1.0.
- ISA bus only supports basic I/O access cycles and limited IRQ.

Watchdog Timer
- Programmable watchdog timer for 1~255 seconds.

USB
- Support four USB3.0 ports.
- Support six USB2.0 ports.

Audio
- RealTek ALC888 high-definition audio chip on-board.
- Support Line-OUT, Line-IN, MIC, SPDIF, CD-IN.

Features

- Support Intel® Core™ i7/i5/i3/ Xeon®/ Pentium®/ Celeron® processor with LGA1155 socket.
- Two DDR3-1600 DIMM sockets support up to 16GB system memory in Dual Channel Mode.
- Dual GbE LANs with iAMT8.0 support.
- Multiple I/O functions: 4x USB3.0, 6x USB2.0, 4x COM ports, 6x SATA, 1x LPT, 1x FDD, 8 bits DIO, 1xSMbus.
- Six SATA ports support RAID, AHCI and IDE mode.
- Two Mini-PCIE sockets. One supports mSATA option.
- Multiple Displays: CRT, HDMI/DVI, Dual 24-bitsLVDS LCD, support up to triple independent display.

Power
- One 4-pins power connector for system power.
- One ATX-12V 4-pins connector for CPU power.
- Support both AT and ATX mode operation by jumper.
- Fail-Safe AC power resume wakeup function.

TPM
- Infineon TPM 1.2 on board supports security functions.

Software Compatibility
- Microsoft windows: Win7, Win XP, Vista 32/64-bits, etc.
- Linux 32-bits/64-bits and DOS 6.22.

Cooling
- One CPU fan connector nearby CPU socket.
- One system fan connectors for system cooling.
- Support Smart fan speed control.

Dimensions
- PICMG 1.0 Full-Size SBC form factor.
- 4.8"(L) x 13.3" (W); or 338mm (L) x 122mm (W).

Operating Temperature
- 0 to 60 °C operating Range.
- -40~70 °C storage.
- Relative Humility: 5~95%, non-condensing.