

# Industrial Single Board Computer

## 3.5" Miniboard

### LS-377

Support Intel® Core™ i7, Core™ i5 and Core™ i3 CPU with DDRIII  
SO-DIMM, CRT, LVDS, DVI, Gigabit LAN, Mini PCI, PCI Express mini  
card, Serial ATAll, 7.1Channel HD Audio



<b>Form Factor</b>	3.5" Miniboard
<b>CPU</b>	Intel® Core™ i7, Core™ i5, Core™ i3, Celeron®, and Pentium® Mobile Processor Package type: rPGA988A
<b>Memory</b>	1 x DDRIII SO-DIMM 800/1066 MHz up to 4GB
<b>Chipset</b>	Intel QM57
<b>Real Time Clock</b>	Chipset integrated RTC with onboard lithium battery
<b>Watchdog Timer</b>	Generates a system reset with internal timer for 1min/s ~ 255min/s
<b>Power Management</b>	Supports ACPI 2.0 compliant.
<b>Serial ATA Interface</b>	2 x serial ATAll interface with 300MB/s transfer rate
<b>VGA Interface</b>	Onboard VGA (depend on CPU)
<b>LVDS Interface</b>	Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply
<b>DVI Interface</b>	DVI interface
<b>Audio Interface</b>	Realtek ALC888 HD Audio
<b>LAN Interface</b>	1 x Intel 82574L Gigabit LAN
<b>GPIO Interface</b>	Onboard programmable 8-bit Digital I/O interface
<b>Extended Interface</b>	1 x Mini PCIE socket, 1 x Mini PCI socket to support Mini PCI Type IIIA
<b>Internal I/O Port</b>	1 x RS232/422/485, 1 x SMBUS, 1 x GPIO, 4 x USB ports, 1 x IrDA, 1 x LVDS, 1 x DVI, 1 x LCD, 2 x Serial ATA, 1 x LCD Inverter, 1 x HD Audio, 1 x DIO, 1 x DCOOUT and 1 x CDIN
<b>External I/O Port</b>	1 x PS/2, 1 x LAN ports, 1 x VGA port, 2 x USB2.0 ports, 1 x RS232 port
<b>Power Requirement</b>	9~24V full range DC Input
<b>Dimension</b>	146mm x 101mm
<b>Temperature</b>	Operating within 0~60 centigrade Storage within -20~85 centigrade
<b>Ordering Code</b>	
<b>LS-377Q</b>	Intel PGA988 + QM57 Onboard VGA, LVDS, LAN, USB2.0, HD Audio, SATA, SMBUS,DVI Mini PCI and PCI Express mini card.
<b>MPX-7202</b>	PCI Express mini card supports <b>2 x USB 3.0 provides up to 4.8Gbps of transferring rate.</b>
<b>MPX-643</b>	PCI Express mini card supports <b>1 x IEEE1394A and 2 x IEEE1394B.</b>

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