

# Industrial Single Board Computer

## 3.5 inch Miniboard

### LS-378

Support 2<sup>nd</sup> Generation Intel® Core™ i7, Core™ i5 and Core™ i3 CPU  
with DDRIII SO-DIMM, CRT, DVI, LVDS, Gigabit LAN,  
PCI Express mini card, Serial ATAIII, HD Audio



<b>Form Factor</b>	3.5 inch Miniboard
<b>CPU</b>	2 <sup>nd</sup> Generation Intel® Core™ i7, Core™ i5, Core™ i3 and Celeron® Mobile Processor Package type: rPGA988B
<b>Memory</b>	DDRIII SO-DIMM 1066/1333/1600 MHz up to 8GB Non-ECC, unbuffered memory supported only
<b>Chipset</b>	Intel QM67
<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 ATAIII interface with 600MB/s transfer rate
<b>VGA Interface</b>	Onboard DSUB15 connector for VGA interface
<b>LVDS Interface</b>	Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply
<b>DVI interface</b>	Chrontel CH7318 Transmitter with 26-pin DVI connector
<b>Audio Interface</b>	Realtek ALC888 HD Audio
<b>LAN Interface</b>	1 x Intel 82579LM Gigabit LAN
<b>GPIO Interface</b>	Onboard programmable 8-bit Digital I/O interface
<b>Expansion Interfaces</b>	2 x Mini-PCIE socket, 1 x SIM socket
<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 DVI , 1 x LVDS, 1 x LCD inverter, 2 x Serial ATAIII, 1 x Front panel Audio 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 and 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-378DXT</b>	Intel PGA988B+ QM67 Onboard VGA, DVI, LVDS, LAN, USB2.0, HD Audio, SATA, SMBUS, GPIO , SIM and PCI Express mini card.

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