

# Industrial Single Board Computer

Mini-ITX *express* motherboard

## LV-677E

Support Intel Core 2 Duo/Core Duo processor

Onboard VGA, one Intel Gigabit LAN

6x USB2.0, 2 X Mini-PCI,

18-bit dual channel LVDS interface

Realtek ALC880 HD Audio, serial ATA



<b>Form Factor</b>	Mini-ITX express motherboard
<b>CPU</b>	Support Intel Core 2 Duo/Core Duo/ Core solo Processor Package type: Micro-FCPGA478 Front side bus: 533/667MHz
<b>Memory</b>	Two DDRII 533/667MHz DIMM up to 3GB wit dual channel Interleaved mode
<b>Chipset</b>	Intel 945GME & ICH7M
<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>	ACPI 1.0 compliant, supports power saving mode
<b>PCI Enhanced IDE</b>	One 44-pin UltraATA33 IDE interface supports up to 2 ATAPI devices
<b>Serial ATA Interface</b>	2 x serial ATA interface with 150MB/s transfer rate
<b>VGA Interface</b>	Intel integrated extreme GMA 950(Graphic Media Accelerator) Technology
<b>Video Memory</b>	Up to 224MB shared with system memory
<b>LVDS interface</b>	Onboard 18-bit dual channel LVDS connector
<b>Audio Interface</b>	Intel integrated ICH7M with Realtek ALC880 HD Audio
<b>LAN Interface</b>	Intel 82537L Gigabit LAN
<b>Solid State Disk</b>	IDE supports 44-Pin DiskOnModule with +5V power supply One Compact Flash Type II
<b>GPIO interface</b>	Onboard programmable 8-bit Digital I/O interface
<b>Extended Interface</b>	One PCI Express slot support x1 & x16 add on Card Two Mini PCI socket to support Mini PCI Type III
<b>Internal I/O Port</b>	1 x RS232 port ,1 x RS232/422/485, 1 x slim FDD port, 1 x GPIO port, 1 x CDIN connector, 4 x USB ports, 1 x IrDA connector,1 x 44-pin IDE 1 x LVDS and 1 x LCD inverter connector 1 x Audio connector
<b>External I/O Port</b>	1 x RJ45 LAN ports, 1 x DB15 VGA port and 1 x PS/2 Keyboard/Mouse Port, 2 x USB2.0 ports, 1 x IEEE1394 port , 1 x SPDIF connector, 1 x Parallel Port 1 x Line-out/Front, Line-in/Rear and MIC-in/Center

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**Power Requirement** Standard 24-pin ATX power supply (20-pin is compatible) (LV-677) or 8~21V full range DC Input (LV-677DC)

**Note:** It won't support PCIE x16 graphic card if use DC input mode.

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**Dimension** 170mm x 170mm

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**Temperature** Operating within 0~60 centigrade

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#### Ordering Code

**LV-677E** Onboard VGA,LVDS, one Intel Gigabit LAN, 6 x USB2.0, 2 x Mini-PCI, Realtek ALC880 HD Audio, SATA , 24-pin power connector(ATX PSU)

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**LV-677EDC** Onboard VGA,LVDS, one Intel Gigabit LAN, 6 x USB2.0, 2 x Mini-PCI, Realtek ALC880 HD Audio, SATA , 4-pin PowerDin(DC adapter)

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For further product information please visit the website at <http://www.commell.com.tw>

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