

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



Form Factor	Mini-ITX express motherboard
CPU	Support Intel Core 2 Duo/Core Duo/ Core solo Processor Package type: Micro-FCPGA478 Front side bus: 533/667MHz
Memory	Two DDRII 533/667MHz DIMM up to 3GB wit dual channel Interleaved mode
Chipset	Intel 945GME & ICH7M
Real Time Clock	Chipset integrated RTC with onboard lithium battery
Watchdog Timer	Generates a system reset with internal timer for 1min/s ~ 255min/s
Power Management	ACPI 1.0 compliant, supports power saving mode
PCI Enhanced IDE	One 44-pin UltraATA33 IDE interface supports up to 2 ATAPI devices
Serial ATA Interface	2 x serial ATA interface with 150MB/s transfer rate
VGA Interface	Intel integrated extreme GMA 950(Graphic Media Accelerator) Technology
Video Memory	Up to 224MB shared with system memory
LVDS interface	Onboard 18-bit dual channel LVDS connector
Audio Interface	Intel integrated ICH7M with Realtek ALC880 HD Audio
LAN Interface	Intel 82537L Gigabit LAN
Solid State Disk	IDE supports 44-Pin DiskOnModule with +5V power supply One Compact Flash Type II
GPIO interface	Onboard programmable 8-bit Digital I/O interface
Extended Interface	One PCI Express slot support x1 & x16 add on Card Two Mini PCI socket to support Mini PCI Type III
Internal I/O Port	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
External I/O Port	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.

Dimension 170mm x 170mm

Temperature Operating within 0~60 centigrade

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)

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)
