

# Industrial Single Board Computer

## Mini-ITX motherboard

### LV-67B

Support Intel Penryn CPU with DDRIII SO-DIMM, CRT, LVDS, HDTV, Gigabit LAN, PCIE x16, Mini PCI, PCI Express mini card, IEEE 1394, Serial ATAI, 7.1Channel HD Audio, SPDIF and SD



|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor          | Mini-ITX motherboard                                                                                                                                                    |
| CPU                  | Support Intel Penryn Processor<br>Package type: Micro-FCPGA478 ( <b>Socket-P</b> )<br>Front side bus: 667/800/1066 MHz                                                  |
| Memory               | 2 x DDRIII SO-DIMM 800/1066 MHz up to 8GB                                                                                                                               |
| Chipset              | Intel GM45 & ICH9M                                                                                                                                                      |
| 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 2.0 compliant, supports power saving mode                                                                                                                          |
| Serial ATA Interface | 4 x serial ATAI interface with 300MB/s transfer rate                                                                                                                    |
| VGA Interface        | Intel integrated extreme GMA 4500MHD(Graphic Media Accelerator) Technology                                                                                              |
| LVDS Interface       | Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply                                                                                                   |
| Audio Interface      | Intel integrated ICH9-M with Realtek ALC888 HD Audio                                                                                                                    |
| LAN Interface        | 2 x Intel 82573L Gigabit LAN                                                                                                                                            |
| GPIO Interface       | Onboard programmable 8-bit Digital I/O interface                                                                                                                        |
| Extended Interface   | 1 x PCIE x16 slot, 1 x Mini PCIE socket, 1 x SD socket, 1 x Mini PCI socket to support Mini PCI Type IIIA                                                               |
| Internal I/O Port    | 1 x RS232/422/485, 1 x SMBUS, 1 x GPIO, 1 x HDTV, 4 x USB ports, 1 x IrDA, 1 x LVDS, 4 x Serial ATA, 1 x LCD inverter, 1 x Front panel Audio and 1 x CDIN               |
| External I/O Port    | 1 x PS/2, 2 x LAN ports, 1 x VGA port, 6 x USB2.0 ports, 1 x IEEE1394 port, 1 x RS232 port, 1 x SPDIF and 7.1Channel Audio                                              |
| Power Requirement    | Standard 20-pin ATX power supply or 9~24V full range DC Input ( <b>8~30V is operative</b> )<br><b>Note: It won't support PCIE x16 graphic card if use DC input mode</b> |
| Dimension            | 170mm x 170mm                                                                                                                                                           |
| Temperature          | Operating within 0~60 centigrade<br>Storage within -20~85 centigrade                                                                                                    |

| Ordering Code |                                                                                                                          |
|---------------|--------------------------------------------------------------------------------------------------------------------------|
| LV-67B        | Onboard VGA, LVDS, LAN, USB2.0, HD Audio, SATA, HDTV, SMBUS, IEEE1394, SD, PCIE x16, Mini PCI and PCI Express mini card. |
| MPX-574D      | PCI Express mini card supports single Giga LAN.                                                                          |
| MPX-574D2     | PCI Express mini card supports dual Giga LAN.                                                                            |
| ADP-L2T       | 18-bit LVDS to TTL module.                                                                                               |

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

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