

# Industrial Single Board Computer

## Mini-ITX motherboard

### LV-679

Support Intel Core 2 Duo / Celeron M Mobile CPU  
with DDRII SO-DIMM, CRT, LVDS, DVI, Gigabit  
LAN, PCI slot, 1394, Mini PCI, 7.1 Channel HD  
Audio, RS232/422/485 port, Serial ATAII, IDE and  
Compact Flash socket



|                             |                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>          | Mini-ITX motherboard                                                                                                                                                                                                             |
| <b>CPU</b>                  | Support Intel Core 2 Duo / Celeron M Mobile Processor<br>Package type: Micro-FCPGA478<br>Front side bus: 533/667/800 MHz                                                                                                         |
| <b>Memory</b>               | Two DDRII 533/667MHz DIMM up to 3GB with dual channel Interleaved mode                                                                                                                                                           |
| <b>Chipset</b>              | Intel GME965 & ICH8-M(82801HBM)                                                                                                                                                                                                  |
| <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> | 3 x serial ATAII interface with 300MB/s transfer rate                                                                                                                                                                            |
| <b>VGA Interface</b>        | Intel integrated extreme GMA X3100(Graphic Media Accelerator) Technology                                                                                                                                                         |
| <b>Video Memory</b>         | Up to 384MB shared with system memory                                                                                                                                                                                            |
| <b>LVDS interface</b>       | Onboard 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply                                                                                                                                                            |
| <b>DVI Interface</b>        | Two Chrontel CH7307C DVI transmitter with onboard 26-pin DVI interface                                                                                                                                                           |
| <b>Audio Interface</b>      | Intel integrated ICH8-M with Realtek ALC888 HD Audio                                                                                                                                                                             |
| <b>LAN Interface</b>        | Two Intel 82573L Gigabit LAN                                                                                                                                                                                                     |
| <b>Solid State Disk</b>     | IDE supports 44-Pin DiskOnModule with +5V/+3.3V power supply,<br>One Compact Flash Type II                                                                                                                                       |
| <b>GPIO interface</b>       | Onboard programmable 8-bit Digital I/O interface                                                                                                                                                                                 |
| <b>Extended Interface</b>   | One PCI slot, Two Mini PCI socket to support Mini PCI Type IIIA                                                                                                                                                                  |
| <b>Internal I/O Port</b>    | 1 x RS232/422/485, 1 x slim FDD port, 1 x GPIO port, 1 x Parallel Port,<br>4 x USB ports, 1 x IrDA, 1 x IDE, 1 x LVDS , 1 x LCD inverter connector,<br>2 x DVI, 1 x HDTV, 1 x Front panel Audio connector and 1 x CDIN connector |
| <b>External I/O Port</b>    | 1 x PS/2 Keyboard/Mouse Port, 2 x RJ45 LAN ports, 1 x DB15 VGA port,<br>4 x USB2.0 ports, 2 x IEEE1394 port, 1 x RS232 port , 7.1 Channel Audio<br>Output, 1 x SPDIF connector                                                   |
| <b>Power Requirement</b>    | Standard 20-pin ATX power supply or 8~30V full range DC Input                                                                                                                                                                    |
| <b>Dimension</b>            | 170mm x 170mm                                                                                                                                                                                                                    |
| <b>Temperature</b>          | Operating within 0~60 centigrade<br>Storage within -20~85 centigrade                                                                                                                                                             |

#### Ordering Code

|                  |                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LV-679D</b>   | Intel® Core™ 2 Duo Mini-ITX Motherboard with onboard VGA, LAN, SATA, USB 2.0 ports Audio, IEEE1394, RS232/422/485, Mini PCI, PCI, 1x DVI interface |
| <b>LV-679D2C</b> | Same as above, but with 2 x DVI interface and Compactflash socket on the solder side.                                                              |

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

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