

# Industrial Single Board Computer

## 5.25" Embedded Miniboard

### LS-571

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



|                      |                                                                                                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor          | 5.25-inch Embedded Miniboard                                                                                                                                                                                                                                  |
| CPU                  | Support Intel Core 2 Duo / Celeron M Mobile Processor <b>socket-P</b><br>Package type: Micro-FCPGA478<br>Front side bus: 533/667/800 MHz                                                                                                                      |
| Memory               | One 533/667MHz DDRII SO-DIMM up to 2GB                                                                                                                                                                                                                        |
| Onboard Memory       | Onboard optional 1GB 667MHz DDRII SDRAM                                                                                                                                                                                                                       |
| Chipset              | Intel GME965 & ICH8-M(82801HBM)                                                                                                                                                                                                                               |
| 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 | 3 x serial ATAll interface with 300MB/s transfer rate                                                                                                                                                                                                         |
| VGA Interface        | Intel integrated extreme GMA X3100(Graphic Media Accelerator) Technology<br>One optional Chrontel CH7317A SDVO / RGB DAC with 26-pin DVI connector                                                                                                            |
| Video Memory         | Up to 384MB shared with system memory                                                                                                                                                                                                                         |
| DVI Interface        | Onboard Chrontel CH7307C DVI transmitter with 26-pin DVI connector<br>One optional Chrontel CH7307C DVI transmitter with 26-pin DVI connector                                                                                                                 |
| LVDS Interface       | Onboard 18/24-bit dual channel LVDS interface with +3.3V/+5V/+12V supply<br>One optional Chrontel CH7308 LVDS transmitter for 18/24-bit dual channel LVDS interface with +3.3V/+5V/+12V supply                                                                |
| SDTV/HDTV Interface  | Onboard 5x2-pin SDTV/HDTV connector                                                                                                                                                                                                                           |
| Audio Interface      | Intel integrated ICH8-M with Realtek ALC888 HD Audio                                                                                                                                                                                                          |
| LAN Interface        | 2 x Intel 82573L Gigabit LAN                                                                                                                                                                                                                                  |
| Solid State Disk     | IDE supports 44-Pin DiskOnModule with +5V/+3.3V power supply,<br>One Compact Flash Type II                                                                                                                                                                    |
| GPIO interface       | Onboard programmable 8-bit Digital I/O interface                                                                                                                                                                                                              |
| Extended Interface   | One PCI slot, Two Mini PCI socket to support Mini PCI Type IIIA                                                                                                                                                                                               |
| Internal I/O Port    | 1 x slim FDD port, 1 x GPIO port, 1 x Parallel Port, 8x USB ports, 1 x IDE, 1 x LVDS , 1 x LCD inverter connector, 1 x DVI, 1 x HDTV, 1 x Front panel Audio connector ,1 x CDIN connector,1 x RS232/422/485, 5 x COM Port , 1 x IrDA Port and 1 x SMBus Port, |
| Temperature          | Operating within 0~60 centigrade<br>Storage within -20~85 centigrade                                                                                                                                                                                          |
| Power Requirement    | Standard 20-pin ATX power supply or 12V DC Input                                                                                                                                                                                                              |
| Dimension            | 203 mm x 146 mm                                                                                                                                                                                                                                               |

## Ordering Code

|                     |                                                                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LS-571TXD-P</b>  | Onboard CRT, LVDS, HDTV, DVI, 2 x Intel Gigabit LAN, 8 x USB2.0, PCI, 2 x Mini-PCI, GPIO Port, IrDA, Slim FDD, Parallel Port, RS232/422/485, 3 x SATA, HD Audio, SMBus, CF                                       |
| <b>LS-571TXD-1G</b> | Onboard CRT, LVDS, HDTV, DVI, 2 x Intel Gigabit LAN, 8 x USB2.0, PCI, 2 x Mini-PCI, GPIO Port, IrDA, Slim FDD, Parallel Port, RS232/422/485, 3 x SATA, HD Audio, SMBus, CF and <b>Onboard 1GB DDR II 667Mhz,</b> |
| <b>LS-571TX2D-P</b> | Onboard CRT, <b>2 X LVDS</b> , HDTV, DVI, 2 x Intel Gigabit LAN, 8 x USB2.0, PCI, 2 x Mini-PCI, GPIO Port, IrDA, Slim FDD, Parallel Port, RS232/422/485, 3 x SATA, HD Audio, SMBus and CF                        |
| <b>LS-571TXD2-P</b> | Onboard CRT, LVDS, HDTV, <b>2 X DVI</b> , 2 x Intel Gigabit LAN, 8 x USB2.0, PCI, 2 x Mini-PCI, GPIO Port, IrDA, Slim FDD, Parallel Port, RS232/422/485, 3 x SATA, HD Audio, SMBus and CF                        |
| <b>LS-571T2X-P</b>  | Onboard <b>2 X CRT</b> , LVDS, HDTV, 2 x Intel Gigabit LAN, 8 x USB2.0, PCI, 2 x Mini-PCI, GPIO Port, IrDA, Slim FDD, Parallel Port, RS232/422/485, 3 x SATA, HD Audio, SMBus and CF                             |
| <b>LS-571TX2-P</b>  | Onboard CRT, <b>2 x LVDS</b> , HDTV, 2 x Intel Gigabit LAN, 8 x USB2.0, PCI, 2 x Mini-PCI, GPIO Port, IrDA, Slim FDD, Parallel Port, RS232/422/485, 3 x SATA, HD Audio, SMBus and CF                             |

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

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