

# Industrial Single Board Computer

## 5.25" Embedded Miniboard

### LS-573

Support Intel Penryn CPU with DDRIII SO-DIMM, CRT, LVDS, DVI, HDTV, Gigabit LAN, PCI slot, USB, Serial ATAll, Mini PCI, PCI Express mini card, HD Audio, RS232/422/485.



|                      |                                                                                                                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor          | 5.25-inch Embedded Miniboard                                                                                                                                                                                                                       |
| CPU                  | Support Intel Penryn Processor<br>Package type: Micro-FCPGA478 ( <b>Socket-P</b> )<br>Front side bus: 667/800/1066 MHz                                                                                                                             |
| Memory               | Two DDRIII 800/1066 up to 4GB                                                                                                                                                                                                                      |
| Chipset              | Intel GM45 & ICH9-M (82801IBM)                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                     |
| Serial ATA Interface | 4 x serial ATAll interface with 300MB/s transfer rate                                                                                                                                                                                              |
| VGA Interface        | Intel integrated extreme GMA X4500 (Graphic Media Accelerator) Technology<br>One optional RGB DAC with 10-pin DB9 connector ( <b>Only LS-573T2X</b> )                                                                                              |
| Video Memory         | Up to 384MB shared with system memory                                                                                                                                                                                                              |
| DVI Interface        | Onboard DVI transmitter with 26-pin DVI connector ( <b>Only LS-573TXD</b> )                                                                                                                                                                        |
| LVDS Interface       | Onboard 18/24-bit dual channel LVDS interface with +3.3V/+5V/+12V supply                                                                                                                                                                           |
| Audio Interface      | Intel integrated ICH9-M with Realtek ALC888 HD Audio                                                                                                                                                                                               |
| LAN Interface        | 6 x Intel 82574L Gigabit LAN                                                                                                                                                                                                                       |
| GPIO interface       | Onboard programmable 8-bit Digital I/O interface                                                                                                                                                                                                   |
| Extended Interface   | One PCI Express mini card, One PCI slot, One Mini PCI Type IIIA socket                                                                                                                                                                             |
| Internal I/O Port    | 1 x GPIO, 1 x Parallel, 6x USB, 1 x LVDS, 1 x LCD inverter connector, 1 x HDTV, 1 x Front panel Audio, 1 x CDIN connector, 1 x PS/2, 1 x RS232/422/485, 4 x RS-232, 1 x IrDA, 1 x SMBus, <b>1 x DVI (Only LS-573TXD), 1 x VGA (Only LS-573T2X)</b> |
| External I/O Port    | 1 x RS-232 Port, 6 x LAN Port, 2 x USB Port, 1 x VGA Port, 1 x DC connector                                                                                                                                                                        |
| Temperature          | Operating within 0~60 centigrade<br>Storage within -20~85 centigrade                                                                                                                                                                               |
| Power Requirement    | Standard 20-pin ATX power supply or 9~24V full range DC Input ( <b>8~30V is operative</b> )                                                                                                                                                        |
| Dimension            | 203 mm x 146 mm                                                                                                                                                                                                                                    |

| Ordering Code    |                                                                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LS-573TX</b>  | Onboard CRT, LVDS, HDTV, 6 x Intel Gigabit LAN, 8 x USB2.0, PCI, Mini-PCI, GPIO, IrDA, PCI Express mini card, Parallel, RS232/422/485, 4 x SATA, HD Audio and SMBus                  |
| <b>LS-573T2X</b> | Onboard <b>2 X CRT</b> , LVDS, HDTV, 6 x Intel Gigabit LAN, 8 x USB2.0, PCI, Mini-PCI, GPIO, IrDA, PCI Express mini card, Parallel Port, RS232/422/485, 4 x SATA, HD Audio and SMBus |
| <b>LS-573TXD</b> | Onboard CRT, LVDS, HDTV, 6 x Intel Gigabit LAN, 8 x USB2.0, PCI, Mini-PCI, GPIO, IrDA, PCI Express mini card, Parallel, RS232/422/485, 4 x SATA, HD Audio and SMBus, <b>DVI</b>      |
| <b>MPX-574D</b>  | PCI Express mini card supports single Giga LAN ( <b>Only LS-573TX</b> )                                                                                                              |
| <b>MPX-SDVOD</b> | SDVO to DVI module ( <b>LS-573TX, LS-573TXD, LS-573T2X</b> )                                                                                                                         |
| <b>ADP-L2T</b>   | 18bit LVDS to TTL module                                                                                                                                                             |

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

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