

# Industrial Single Board Computer

## Pico-ITX

### LP-170

Intel® Atom™ Processor, Onboard LVDS  
VGA, Giga LAN, USB2.0, HD Audio,  
SATA, CF socket, PCIE Mini-Card



|                             |   |
|-----------------------------|---|
| <b>Form Factor</b>          | Pico-ITX  |
| <b>CPU</b>                  | Intel® Atom™ N450 processor 1.66GHz(LP-170G)<br>Intel® Atom™ D410 processor 1.66GHz(LP-170H)<br>Intel® Atom™ D510 processor 1.66GHz(LP-170A)<br>Package type: FCBGA         |
| <b>Memory</b>               | 1 x 200-pin DDR2 667 SO-DIMM SDRAM up to 2GB(LP-170G Only)<br>1 x 200-pin DDR2 667/800 SO-DIMM SDRAM up to 4GB(LP-170H/A Only)<br>Non-ECC, unbuffered memory supported only |
| <b>System Chipset</b>       | Intel ICH8M   |
| <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(sec) ~ 255min(sec)  |
| <b>Power Management</b>     | ACPI 1.0 compliant, supports power saving mode  |
| <b>Integrated Graphics</b>  | Intel® integrated extreme GMA 3150(Graphic Media Accelerator) Technology  |
| <b>Video Memory</b>         | Up to 384MB shared with system memory   |
| <b>LVDS interface</b>       | Chipset Integrated 18-bit single channel LVDS with Hirose connector   |
| <b>Serial ATA interface</b> | 1 x serial ATAll interface with 300MB/s transfer rate   |
| <b>Solid State Disk</b>     | 1 X Compact Flash Type II socket  |
| <b>Audio Interface</b>      | Intel ICH8M integrated with Realtek ALC888 HD Codec   |
| <b>LAN Interface</b>        | Intel 82583V Gigabit Ethernet controller  |
| <b>Extended Interface</b>   | 1 x PCIE mini card socket   |
| <b>Internal I/O Port</b>    | 1 x AUDIO, 1 x LVDS, 1 x LCD Inverter, 4 x USB2.0, 1 x SATAII<br>2 x RS232, 1 x LPC   |
| <b>External I/O Port</b>    | 1 x RJ45 , 1 x VGA, 1 x PS2   |
| <b>Power Requirement</b>    | 12V DC Input  |
| <b>Dimension</b>            | 100mm x 72mm  |
| <b>Weight</b>               | 87.7g   |
| <b>Temperature</b>          | Operating within 0~60 centigrade<br>Storage within -20~85 centigrade  |

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## Ordering Code

|                |   |
|----------------|---|
| <b>LP-170G</b> | Support Intel® Atom <b>N450</b> processor with onboard VGA, LVDS for 18-bits, Audio, Giga LAN,USB2.0, SATA , CF, PCIE mini card |
| <b>LP-170H</b> | Support Intel® Atom <b>D410</b> processor with onboard VGA, LVDS for 18-bits, Audio, Giga LAN,USB2.0, SATA , CF, PCIE mini card |
| <b>LP-170A</b> | Support Intel® Atom <b>D510</b> processor with onboard VGA, LVDS for 18-bits, Audio, Giga LAN,USB2.0, SATA , CF, PCIE mini card |

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### Taiwan Commate Computer Inc.

19F, NO. 94, Sec. 1, Shin Tai Wu Rd., Hsi Chih, Taipei Shien, Taiwan.

TEL: +886-2-26963909

Website:[www.commell.com.tw](http://www.commell.com.tw)

FAX: +886-2-26963911

E-mail:[info@commell.com.tw](mailto:info@commell.com.tw)



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