

# Industrial Single Board Computer

## PICO-ITX

### LP-171

Intel® Atom™ Processor, Onboard LVDS

VGA, DVI, Giga LAN, USB2.0, HD Audio

CF socket, PCIE Mini-Card



<b>Form Factor</b>	PICO-ITX
<b>CPU</b>	Intel® Atom™ Z510P processor 1.1GHz Intel® Atom™ Z520PT processor 1.33GHz Package type: 437pin FCBGA8 with an IHS, Front side bus: 400/533MHz
<b>Memory</b>	One 200-pin DDR2 400/533 SO-DIMM SDRAM up to 2GB Non-ECC, unbuffered memory supported only <b>*Memory chip with width x16 bits is strongly recommended!</b>
<b>System Chipset</b>	Intel® SCH US15WP/US15WPT
<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 500(Graphic Media Accelerator) Technology
<b>Video Memory</b>	Up to 256MB shared with system memory
<b>LVDS interface</b>	Chipset Integrated 18/24-bit single channel LVDS with Hirose connector with +3.3V/5V supply <b>Support 18/24-bit dual channel LVDS by MPX-SDVOX(LP-171X)</b>
<b>DVI Interface</b>	Chrontel CH7307C Transmitter with DVI interface( <b>LP-171D</b> )
<b>VGA Interface</b>	Chrontel CH7317A Transmitter with DSUB15 connector for VGA interface( <b>LP-171T</b> )
<b>Solid State Disk</b>	One Compact Flash Type II socket
<b>Audio Interface</b>	Intel® SCH integrated with Realtek ALC888 HD Codec
<b>LAN Interface</b>	Intel® 82574L/82574LT 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, 2 x USB2.0, 2 x RS232, 1 x LPC
<b>External I/O Port</b>	VGA/DVI, 1 x RJ45, 1 x PS2
<b>Power Requirement</b>	12V± 5% DC Input
<b>Dimension</b>	100mm x 72mm
<b>Temperature</b>	Operating within 0~60 centigrade/ <b>Wide-Temperature</b> : Operating within -40~85 centigrade Storage within -20~85 centigrade/ <b>Wide-Temperature</b> : Storage within -40~85 centigrade

#### Taiwan Commate Computer Inc.

19F, No.94, Sec.1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22102, 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)

Facebook: <https://www.facebook.com/pages/Taiwan-Commate-Computer-Inc/547993955271899>

Twitter: [https://twitter.com/Taiwan\\_Commamate](https://twitter.com/Taiwan_Commamate)



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## Ordering Code

LP-171QT	Support Intel® Atom Z510P processor with onboard <b>VGA</b> , LVDS, Audio, Giga LAN USB2.0, CF, PCIE mini card
LP-171QD	Same as LP-171QT but without VGA, support <b>DVI</b>
LP-171QX	Same as LP-171QT but without VGA, support <b>18/24-bit dual channel LVDS by MPX-SDVOX</b> <b>( Note : Onboard Mlni-PCle socket support MPX-SDVOX only )</b>
LP-171PT	Support Intel® Atom Z520PT processor with onboard <b>VGA</b> , LVDS, Audio, Giga LAN USB2.0, CF, PCIE mini card <b>Wide-Temperature Range (OEM model)</b>
LP-171PD	Same as LP-171PT but without VGA, support <b>DVI (OEM model)</b>
LP-171PX	Same as LP-171PT but without VGA, support <b>18/24-bit dual channel LVDS by MPX-SDVOX</b> <b>( Note : Onboard Mlni-PCle socket support MPX-SDVOX only (OEM model)</b>

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FAX: +886-2-26963911      E-mail:[info@commell.com.tw](mailto:info@commell.com.tw)

Facebook: <https://www.facebook.com/pages/Taiwan-Commate-Computer-Inc/547993955271899>

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