

# Industrial Motherboard

## Full Size ATX motherboard

### P4BWA

Support Intel Core 2 Quad with DDRII  
Onboard VGA, 2 x Gigabit LAN  
10 x USB2.0, Realtek ALC888 HD Audio  
6 x COM Ports, GPIO, SATA, ISA Slot



<b>Form Factor</b>	Full size ATX motherboard
<b>CPU</b>	Support Intel Core 2 Quad /Core 2 Duo and Pentium D / Pentium 4 processor Package type: PLGA 775 Front side bus: 533/800/1066MHz Dual core,EM64T supported
<b>Memory</b>	4 x DDRII 533/667/800MHz SDRAM up to 8GB
<b>Chipset</b>	Intel Q965 & ICH8DO
<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 with ATX PSU
<b>VGA Interface</b>	Intel integrated extreme GMA3000 (Graphic Media Accelerator) Technology
<b>Video Memory</b>	Up to 256MB shared with system memory
<b>Serial ATA Interface</b>	6 x serial ATAII interface with 300MB/s transfer rate Support RAID 0, 1, 5, 10 and Intel Matrix Storage Technology
<b>Audio Interface</b>	Intel integrated with Realtek ALC888 HD Audio
<b>LAN Interface</b>	2 x Intel 82573L Gigabit LAN
<b>GPIO interface</b>	Onboard programmable 8-bit Digital I/O interface
<b>Extended Interface</b>	Onboard one x16 PCI-Express, one x4 PCI-Express One Mini-PCI, four PCI slots and two ISA slots.
<b>Internal I/O Port</b>	4 x RS232 ports, 1 x RS232/422/485, 1 x Parallel port, 1 x FDD port 1 x GPIO port, 1 x IrDA, 4 x USB ports 1 x Front Audio connector, 1 x CDIN connector,
<b>External I/O Port</b>	1 x PS/2 Keyboard/Mouse Port, 2 x RJ45 LAN ports, 6 x USB2.0 ports 1 x DB15 VGA port, 1 x Serial Port, 1 x SPDIF, 1 x Audio.

<b>Power Requirement</b>	Standard 24-pin ATX power supply (20-pin is compatible) Standard 8-pin 12V power Input connector (4-pin is compatible)
<b>Dimension</b>	307mm x 244mm (L x W)
<b>Temperature</b>	Operating within 0~60 centigrade Storage within -20~85 centigrade

#### Ordering Code

<b>P4BWA</b>	Support Intel Core 2 Quad LGA775 with DDRII, Onboard VGA, Dual Intel Gigabit LAN 10 x USB2.0, Realtek ALC888 HD Audio, 6 x COM Ports, GPIO, SATA and ISA slot.
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For further product information please visit the website at <http://www.commell.com.tw>

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