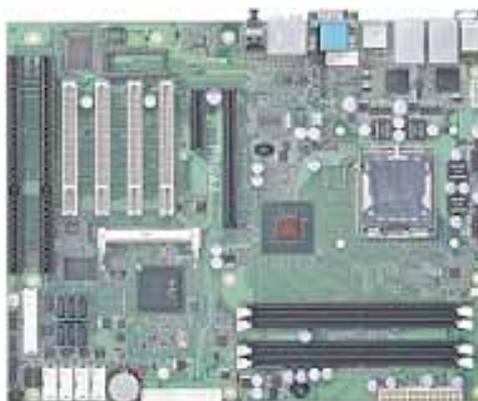# Industrial Motherboard

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

Form Factor	Full size ATX motherboard
CPU	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
Memory	4 x DDRII 533/667/800MHz SDRAM up to 8GB
Chipset	Intel Q965 & ICH8DO
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 with ATX PSU
VGA Interface	Intel integrated extreme GMA3000 (Graphic Media Accelerator) Technology
Video Memory	Up to 256MB shared with system memory
Serial ATA Interface	6 x serial ATAII interface with 300MB/s transfer rate Support RAID 0, 1, 5, 10 and Intel Matrix Storage Technology
Audio Interface	Intel integrated with Realtek ALC888 HD Audio
LAN Interface	2 x Intel 82573L Gigabit LAN
GPIO interface	Onboard programmable 8-bit Digital I/O interface
Extended Interface	Onboard one x16 PCI-Express, one x4 PCI-Express One Mini-PCI, four PCI slots and two ISA slots.
Internal I/O Port	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,
External I/O Port	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.

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

Ordering Code	
P4BWA	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.

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