

# Industrial Single Board Computer

## Half-size PCI Bus CPU Card

### HE-772

Intel® Atom™ Processor , Onboard LVDS , CRT ,  
Giga LAN , HD Audio , SATA , IDE , CF socket ,  
MiniCard , PS2 , LPT



<b>Form Factor</b>	Half-size PCI Bus CPU Card
<b>CPU</b>	Intel® Atom™ N450 processor 1.66GHz(HE-772G) Intel® Atom™ D410 processor 1.66GHz(HE-772H) Intel® Atom™ D510 processor 1.66GHz(HE-772A) Sockets Supported: FCBGA559
<b>Memory</b>	1 x 200-pin DDR2 667 SO-DIMM SDRAM up to 2GB(HE-772G Only) 1 x 200-pin DDR2 667 SO-DIMM SDRAM up to 4GB(HE-772H/A Only) 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 2.0 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 with +3.3V/5V supply
<b>Serial ATA interface</b>	3 x serial ATAII 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>	2 x Intel 82583V Gigabit Ethernet controller
<b>Extended Interface</b>	2 x Mini PCIE card socket
<b>Internal I/O Port</b>	1 x RS232/RS422/485 , 5 x RS232 , 1 x LVDS , 1 x INV , 1 x LPT , 1 x IrDA , 1 x IDE 6 x USB2.0 , 3 x SATAII , 1 x SMBUS , 1 x CN_CRT , 1 x DIO and 1 x HD Audio
<b>External I/O Port</b>	2x RJ45 , 1 x PS2 , 1 x VGA port
<b>Power Requirement</b>	DC 5V/12V power required, optional 5VSB for ATX Onboard 4-pin power connector & 3-pin ATX connector
<b>Dimension</b>	185mm x 122mm
<b>Temperature</b>	Operating within 0~60 centigrade Storage within -20~85 centigrade

## Ordering Code

<b>HE-772G</b>	Support Intel® Atom <b>N450</b> processor with onboard VGA, LVDS for 18-bits, Audio, Giga LAN,USB2.0, SATA , CF , Mini PCIE card.
<b>HE-772H</b>	Support Intel® Atom <b>D410</b> processor with onboard VGA, LVDS for 18-bits, Audio, Giga LAN,USB2.0, SATA , CF , Mini PCIE card.
<b>HE-772A</b>	Support Intel® Atom <b>D510</b> processor with onboard VGA, LVDS for 18-bits, Audio, Giga LAN,USB2.0, SATA , CF , Mini PCIE card.
<b>CBP-5P4</b>	Support 4 X PCI slots backplane.
<b>MPX-954E</b>	PCI Express mini card support 2 x RS232 , 2 x RS422/RS485

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