

Industrial Single Board Computer

Half-size PISA CPU Card

HE-875P

Intel Atom processor with DDRII SO-DIMM,
Onboard VGA, LVDS, DVI, Mini PCI, SATA,
USB2.0, CF, Giga LAN and AC97 Audio



Form Factor	Half-size PISA bus CPU Card
CPU	Intel Atom N270 1.6GHz processor L2 cache: 512KB Package type: FCBGA8 Front side bus: 533MHz
Memory	1 x 200-pin DDR2 400/533 SO-DIMM SDRAM up to 2GB Non-ECC, unbuffered memory supported only
Chipset	Intel 945GSE & ICH7M
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
VGA Interface	Intel integrated extreme GMA 950 (Graphic Media Accelerator) Technology
Video memory	Up to 224MB share with system memory
LVDS Interface	Onboard 18-bit dual channel LVDS interface Optional: 24-bit dual channel LVDS interface (HE-875PXG2/HE-875PXG)
DVI Interface	Optional: DVI interface (HE-875PDG2/HE-875PDG)
SATA Interface	2 x serial ATA interface with 150MB/s transfer rate
IDE Interface	1 x UltraATA33 IDE channel up to 2 ATAPI devices with IDE 44-pin connector
Solid State Disk	IDE supports 44-Pin Disk On Module with +5V power supply 1 x Compact Flash Type II socket
Audio Interface	Intel integrated ICH7M with AC97 Audio
LAN Interface	2 x Gigabit LAN
GPIO Interface	Onboard programmable 8-bit Digital I/O interface
Extended Interface	1 x Mini-PCI socket and 1 x Compact Flash Type II socket
Internal I/O Port	1 x IDE, 2 x SATA, 1 x FDD, 1 x LPT, 6 x USB, 1 x CDIN, 1 x AC97 Audio connector, 1 x GPIO, 1 x IrDA, 1 x Onboard 5-pin AT keyboard Port, 1 x RS232, 1 x RS232/422/485, 1 x HDTV, 1 x LVDS, 1 x 5-pin LCD inverter connector, 1 x DVI (HE-875PDG2/HE-875PDG)
External I/O Port	COM, LAN, DB15 VGA, PS/2 Keyboard & Mouse
Power Requirement	+5V, +12V DC input & 5V _{SB} Requirement, Onboard 4-pin power & 3-pin ATX connector
Dimension	185 mm x 127 mm (L x W)
Temperature	Operating within 0~60 centigrade Storage within -20~85 centigrade

Ordering Code

HE-875PDG2	Onboard VGA, LVDS for 18-bit dual channel, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, AC97 Audio, DVI and 2 x Gigabit LAN .
HE-875PDG	Onboard VGA, LVDS for 18-bit dual channel, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, AC97 Audio, DVI and 1 x Gigabit LAN .
HE-875PG2	Onboard VGA, LVDS for 18-bit dual channel, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, AC97 Audio and 2 x Gigabit LAN .
HE-875PG	Onboard VGA, LVDS for 18-bit dual channel, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, AC97 Audio and 1 x Gigabit LAN .
HE-875PXG2	Onboard VGA, LVDS for 24-bit dual channel, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, AC97 Audio and 2 x Gigabit LAN .
HE-875PXG	Onboard VGA, LVDS for 24-bit dual channel, HDTV, IDE, CF, SATA, COM, USB2.0, Mini PCI, AC97 Audio and 1 x Gigabit LAN .

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

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