



HPC-1812CLD2NA

PICMG1.0 Onboard Intel® Atom™ N270 CPU card with VGA/LVDS/CF/2GbE/Audio



Features

- PICMG1.0 Half-size CPU Card
- Onboard Intel® Atom™ N270 processor
- Supports 1 x 200-pin SODIMM, up to 2GB DDR2 400/533
- Supports up to 2 x 10/100/1000Mbps Ethernet interface
- Supports VGA and dual-channel 18-bit LVDS
- Supports 1 x CF, 6 x USB2.0, 1 x LPT, 4 x COM, 8 x GPIO

1
PICMG

2
SBC & SoM

3
CompactPCI

4
Network

5
BoxPC & Special IPC

6
HMI & TabletPC

7
Rugged Series

Specifications

System

Processor	Onboard Intel Atom™ N270 1.6GHz processor, FSB 533MHz
Chipset	Intel 945GSE + ICH7M
Memory	Supports 1 x 200-pin DIMM, up to 2GB DDR2 400/533MHz
Hardware Monitor	Monitors system status, voltage, temperature and fan speed
Watchdog Timer	1~255 sec./min, timer system reset or interrupt, setup by software
Expansion Interface	PICMG 1.0 (PCI only)

Storage

IDE	N/A
Serial ATA	2 x Serial ATA 300MB/s interface
Floppy	N/A
CF	1 x CF II
DOC/DOM	N/A

I/O Interface

USB	6 x USB2.0 port, available pin header onboard
Serial Port	3 x RS-232, available pin header onboard 1 x RS-232/485, available pin header onboard
Parallel Port	1 x LPT
IrDA	N/A
GPIO	8 x GPIO
Audio	Supports HDA, available interfaces of Speaker-out, Line-in and Mic-in

Display

Display Controller	Intel® 945GSE integrated graphics controller, supports DVMT 3.0
Resolution	VGA mode up to 1920 x 1200 LVDS mode up to 1600 x 1200
Dual Display	VGA+LVDS and LVDS+LVDS

Ethernet

Chipset	2 x RTL8111D
Speed	10/100/1000Mbps
Connector	2 x RJ45

Mechanical and Environmental

Dimensions(L*W*H)	185mm x 121.9mm x 37mm (with heat sink)
Operating Temperature	0°C~60°C
Storage Temperature	-40°C~80°C
Operating Humidity	5%-90%, non-condensing

Power

Power Supply	Supports ATX/AT power supply
Power Consumption	Onboard Atom™ N270 and 2GB DDR2 667 AT: 5V@1.48A and 12V@0.2A ATX: 5V@1.42A and 3.3V@0.3A

Operating System

Windows OS	Windows 2000/Windows XP/Linux 2.6/QNX 6.3.2
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Packing List

- 1 x SATA Cable/RoHS (P/N:2360-017961)
- 4 x COM Cable /RoHS (P/N:2360-027521)
- 2 x USB Cable /RoHS (P/N:2360-014781)
- 1 x AV Cable /RoHS (P/N:2360-002581)
- 1 x LPT Cable/RoHS (P/N:2360-011221)
- 1 x KM Cable /RoHS (P/N:2360-005031)
- 1 x Driver CD/RoHS (P/N:2192-009951)
- 1 x 3-pin Cable /RoHS (P/N:2360-030761)

Ordering Information

Part Number	Model Number	Description
0030-014460	HPC-1812CLDNA	PICMG1.0 half-size CPU card/onboard ATOM™ N270 CPU/1 x DDR2 SO-DIMM/1 x VGA, 1 x LVDS/2 x SATA, 1 x CF/1 x FDD/1 x 1000M/6 x USB/3 x RS232, 1 x RS232/485/1 x LPT/1 x PS/2/HDA/8 x GPIO
0030-014470	HPC-1812CLD2NA	PICMG1.0 half-size CPU card/onboard ATOM™ N270 CPU/1 x DDR2 SO-DIMM/1 x VGA, 1 x LVDS/2 x SATA, 1 x CF/1 x FDD/2 x 1000M/6 x USB/3 x RS232, 1 x RS232/485/1 x LPT/1 x PS/2/HDA/8 x GPIO