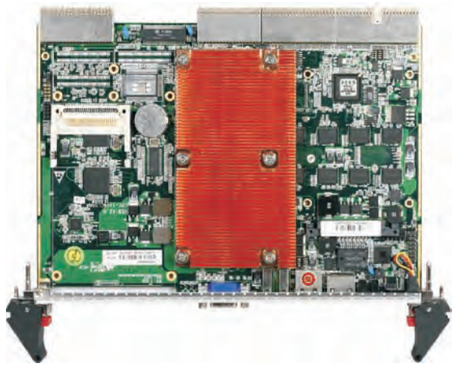
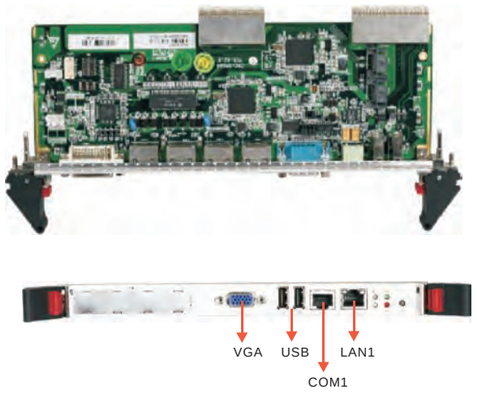
CompactPCI Platforms | 6U CompactPCI Boards

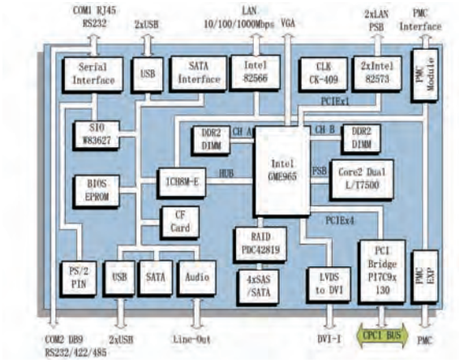
CPC-1814 Series

Core™ 2 Duo Wide Temperature CompactPCI Boards with VGA/LVDS/DVI/5GbE/PMC/CF/Audio

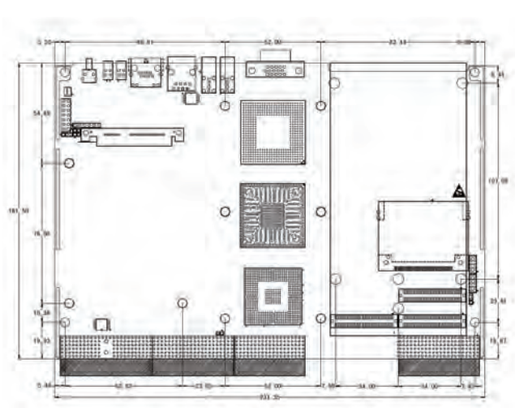


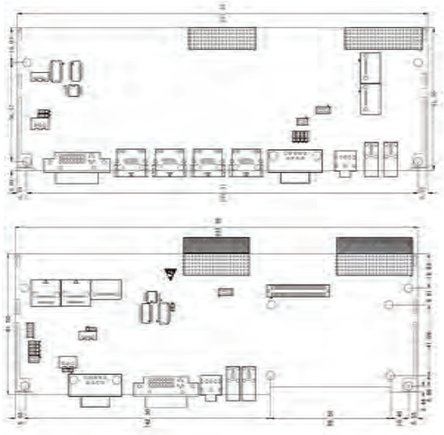


Board Diagram



Dimensions





Features

- Onboard Intel® Core™ 2 Duo L7500 1.6GHz processor, optional T7500 2.2GHz
- Adopts fanless design, supports wide operating temperature
- Onboard 2GB DDR2 667 dual channel memory
- Supports 32/64bit, 33/66MHz CompactPCI bus
- Supports 1 x 32bit/33MHz, 3.3V/5V PMC module, optional CF socket
- Supports one onboard 2.5" SATA hard disk
- Supports 5 x Intel® Gigabit Ethernet port
- Available 6U Rear I/O board:CPC-RP804, CPC-RP804B, CPC-RP804R and CPC-RP805

SPECIFICATIONS

System

Processor	Onboard Intel® Core™ 2 Duo L7500 1.6GHz low-power processor, with 4MB L2 Cache, 800MHz FSB Onboard Intel® Core™ 2 Duo T7500 2.2GHz mobile processor, with 4MB L2 Cache, 800MHz FSB
Chipset	Intel® GME 965 + ICH8M
Memory	Onboard 2GB DDR2 667(Non-ECC) dual channel system memory
Hardware Monitor	Monitors system status, voltage, temperature and fan speed etc.
Watchdog Timer	1~255 sec./min. timer system reset or interrupt, setup by software
CompactPCI Standards	Compliant with: PICMG2.0 CompactPCI R3.0 PICMG2.1 Hot Swap R2.0 PICMG2.3 PMC R1.0 PICMG2.16 Packet Switching Backplane R1.0
CompactPCI Bus	Supports 32/64bit, 33/66MHz CompactPCI bus 3.3V/ 5V universal CompactPCI signal voltage compliant
PMC Interface	Supports one 32bit/33MHz PMC interface, compliant with 3.3V/ 5V signal voltage

	CPC-1814 Series	CPC-RP804 Series	CPC-RP805
Storage Interface			
SATA	Onboard 1 x 2.5" SATA bay (with power supply and signal connector)	2 x SATA 300MB/s interface	1 x SATA 300MB/s interface 4 x SAS, supporting RAID0,1
SAS	N/A	2 x SAS, supporting RAID 0,1(CPC-RP-804R)	N/A
CF	1 x CF Socket Type I/II (Occupies the PMC position)	N/A	

Note: The CF socket and PMC site share the same installation space, can't be selected by simultaneously.

I/O Interface			
USB	2 x USB2.0 ports	2 x USB2.0 ports	2 x USB2.0 ports
Serial Port	1 x RS232(RJ45 port)	1 x 232/422/485(DB9 port)	1 x RS232/422/485(DB9 port)
GPIO	4 x GPI, 4 x GPO	N/A	N/A
Audio	N/A	Realtek ALC888 1 x Line-out port, Supports HD Audio	Realtek ALC888 1 x Line-out port, Supports HD Audio
KB/MS	1 x PS/2(KB/MS) Port	1 x PS/2 for KB/MS (onboard 8-pin header)	1 x PS/2 for KB/MS (onboard 8-pin header)
Display Port	1 x VGA	1 x LVDS or DVI-I	1 x DVI-I, 1 x LVDS

	CPC-1814 Series	CPC-RP804 Series	CPC-RP805
Ethernet			
Chipset	1 x Intel® 82566 2 x Intel® 82573E	2 x Intel® 82573E(CPC-RP804)	N/A
Connector	1 x RJ-45	2 x RJ-45(CPC-RP804B/R) 4 x RJ-45(CPC-RP804)	N/A

Display

Chipset	Intel® GME965 integrated GMA X3100 at 500MHz
Memory	256MB shared memory
Resolution	VGA mode up to 2048 x 1536@75Hz One 24bit LVDS display interface, Optional DVI display port on rear I/O board
Dual Display	Supports CRT+LVDS or CRT+DVI dual independent display

Mechanical and Environmental

Dimensions	CPC-1814CLD5NA /CPC-1814CLD5NA-N: 6U 4HP CompactPCI system board, 233.33mm(H) x 161.51mm(D) CPC-RP804/ CPC-RP804B/ CPC-RP804R/CPC-RP805: 6U 4HP CompactPCI rear I/O board, 233.33mm(H) x 81.5mm(D)
Operating Temperature	-10℃~55℃(with T7500 2.2GHz processor) -20℃~70℃, optional -40℃~80℃(with L7500 1.6GHz processor)
Storage Temperature	-45℃~85℃
Operating Humidity	5%-95%, non-condensing

Power

Power Supply	Supports CompactPCI and ATX power supply
Power consumption	Typical 30W (CPU: L7500 1.6GHz, Memory:2GB DDR2 667) Typical 45W (CPU: T7500 2.2GHz, Memory:2GB DDR2 667)

Operating System

Supported OS	Windows XP Professional Windows XP Embedded Windows 2003 Server Red Hat Enterprise Linux(RHEL) 5.2 VxWorks (Note: Please connect EVOC for other OS support)

Order Information

Part NO.	Model NO.	Description
0030-011940	CPC-1814CLD5NA-CF	CPC-1814CLD5NA/Onboard L7500 1.6G CPU+GME965/onboard 2GB RAM/2x1000M network port/1xRS232/ VGA/2 x USB/SATA HDD bay/CF socket/-40℃~80℃
0030-007670	CPC-1814CLD5NA-PMC	CPC-1814CLD5NA/Onboard L7500 1.6G CPU + GME965/onboard 2GB RAM/VGA/onboard 1xSATA/1x1000M network port/2xUSB/1xRS232/PMC
0030-017241	CPC-1814CLD5NA-N1.6-CF	CPC-1814CLD5NA-N Series/Onboard L7500 1.6G CPU+GME965/onboard 2GB RAM/1 x CF socket/1 x RS232 serial port (RJ45) /1 x VGA port/2 x USB2.0/1 x 1000M network port
0030-017231	CPC-1814CLD5NA-N1.6-PMC	CPC-1814CLD5NA-N Series/Onboard L7500 1.6G CPU+GME965/onboard 2GB RAM/1 x PMC/1 x RS232 serial port (RJ45) /1 x VGA port/2 x USB2.0/1 x 1000M network port
0030-017371	CPC-1814CLD5NA-N2.2-CF	CPC-1814CLD5NA-N Series/Onboard T7500 2.2G CPU+GME965/onboard 2GB RAM/1 x CF socket/1 x RS232 serial port (RJ45) /1 x VGA port/2 x USB2.0/1 x 1000M network port
0030-017221	CPC-1814CLD5NA-N2.2-PMC	CPC-1814CLD5NA-N Series/Onboard T7500 2.2G CPU+GME965/onboard 2GB RAM/1 x PMC/1 x RS232 serial port (RJ45) /1 x VGA port/2 x USB2.0/1 x 1000M network port
0060-002390	CPC-RP804	CPC-1814CLD5NA rear I/O board/4 x 1000M network port, DVI-I(optional LVDS)/COM2/2 x USB/Line-out/2 x SATA
0060-002400	CPC-RP805	CPC-1814CLD5NA rear I/O board/DVI-I(optional LVDS)/COM2/2 x USB/Line-out/4 x SAS(supporting Raid0,1)/1 x SATA
0060-004621	CPC-RP804B	CPC-1814CLD5NA-N rear I/O board/2 x Giga LAN/2 x SATA/2 x USB2.0/1 x RS-232/422/485(DB9&onboard header)/ 1 x PS/2(KB/MS)/1 x DVI/LVDS/VGA /1 x audio output
0060-004631	CPC-RP804R	CPC-1814CLD5NA-N rear I/O board/2 x Giga LAN/2 x SATA/2 x SAS(supporting Raid0,1)/2 x USB2.0/1 x RS-232/ 422/485(DB9&onboard header)/1 x PS/2(KB/MS)/1 x DVI/LVDS/VGA /1 x audio output port
0090-000050	CPC-5DVI	Converter for LVDS to DVI (suitable for EVOC CompactPCI Boards)

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