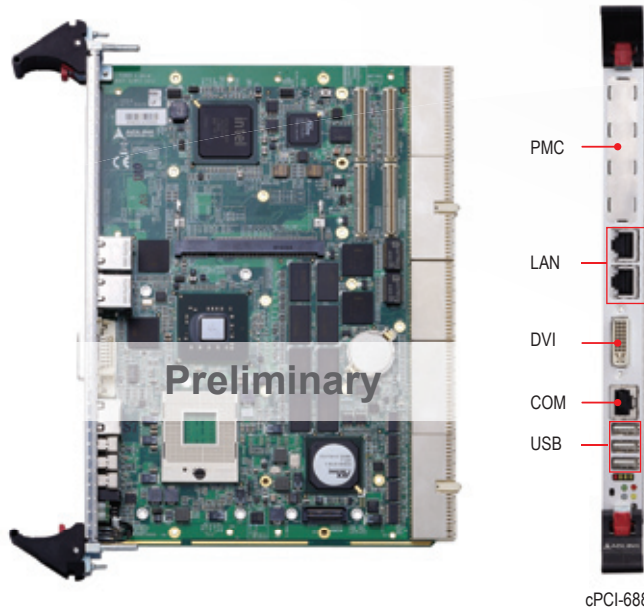


cPCI-6880 Series

Low Power 6U CompactPCI® 45nm Intel® Core™2 Duo Processor Blade



Features

- 45nm Intel® Core™2 Duo 2.53GHz, 6MB L2 cache
- Up to 8GB DDR2-800 non-ECC memory
- DVI + VGA display interfaces
- Four PCI-Express GbE ports
- Supports system/peripheral operation

Specifications

Processor & System

CPU	<p>µFC-PGA Intel® Core™2 Duo Processor SV 2.53GHz (T9400), 6 MB L2, FSB 1066MHz</p> <p>µFC-PGA Intel® Core™2 Duo Processor 2.2GHz (T7500), 4MB L2, FSB 800MHz</p> <p>µFC-PGA Intel® Celeron® M 2.0GHz (575), 1MB L2, FSB 667MHz</p>
Chipset	Intel® GM45 with ICH9M
RAM	<p>Dual channel DDR2-800 SDRAM, up to 8GB</p> <p>Up to 4GB soldered onboard and additional 200-pin SODIMM</p>
BIOS	AMI® Legacy BIOS, 16Mbit SPI Flash memory
CompactPCI Bus	<p>PCI 64bit/ 66MHz, 3.3V or 5V universal V(I/O)</p> <p>Supports operation in System slot and Peripheral slot</p>
PICMG Standard	<p>PICMG® 2.0 CompactPCI R3.0</p> <p>PICMG® 2.1 Hot Swap R2.0</p> <p>PICMG® 2.9 System Management v1.5 R1.0</p> <p>PICMG® 2.16 Packet Switching Backplane R1.0</p>

Connectivity

PMC/XMC	One PCI 64bit/66MHz PMC site
Ethernet	<p>Four PCI-Express Intel® 82573L Gigabit Ethernet controllers</p> <p>Two 10/100/1000BASE-T front panel ports</p> <p>Two 10/100/1000BASE-T PICMG® 2.16 ports</p>
Graphics	<p>Integrated in Intel® GM45, powered by the Gen-5.0 Graphics Architecture</p> <p>One DVI-I port on front panel (analog CRT signal is also routed to RTM)</p> <p>Analog monitor support up to QXGA</p>
USB	<p>Three USB 2.0 front panel ports</p> <p>Six USB ports are routed to RTM</p>
PS/2	PS/2 Keyboard Mouse port is routed to RTM
Serial Port	<p>Max. three 16C550 compatible serial ports from Super IO</p> <p>One RJ45 port on front panel, two serial ports are routed to RTM</p>

Storage

SBC	<p>Built in 4GB USB NAND Flash onboard</p> <p>One removable Serial ATA direct connectors for 2.5" onboard HDD</p> <p>Optional CompactFlash socket</p>
-----	---

RTM	<p>Two onboard 7-pin SATA data connectors for external hard drives</p> <p>One SATA port for 2.5" onboard SATA HDD (8HP version only)</p> <p>Optional CompactFlash socket onboard (8HP version only)</p> <p>One internal and one external 68-pin SCSI connector by LSI53C1020 SCSI Ultra320 single channel controller</p> <p>Onboard Floppy pin header</p>
-----	--

Operating System

OS	Microsoft Windows® XP Professional (Please contact ADLINK for other OS support)
----	--

Miscellaneous

LED	Power, WDT, Hot Swap, Hard Disk, CPU overtemperature, IPMI debug
Battery	Coin cell Lithium Battery onboard for RTC CMOS RAM for BIOS configuration
Watchdog Timer	System Reset and NMI, with Programmable Interval, 1-255 sec or 1-255 minutes
Hardware Monitor	Monitoring of CPU temperature, system temperature, Vcore and DC voltages

Mechanical & Environmental

Form Factor	6U 4HP CompactPCI®
Operating Temp.	0-60°C standard -20 ~70°C extended temperature
Storage Temp.	-40-85°C
Rel. Humidity	95%@60°C, non-condensing
Shock	TBD
Vibration	TBD
Power Consumption	TBD

Safety & EMI

Certifications	CE, FCC
----------------	---------

I/O Table

Function	cPCI-6880		cPCI-R6000 (4HP)		cPCI-R6000P (4HP)		cPCI-R6000D (8HP)	
	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard
GbE	Y x2		Y x2		Y x2 (or 2.16)		Y x2 (or 2.16)	
USB	Y x3		Y x2	Y (5-pin)	Yx2	Y (5-pin)	Yx4	Y (5-pin)
DVI-I	Y		Y					
VGA					Y		Y	
Serial Port	Y (RJ-45)		Y (DB-9)	Y (10-pin)	Y (DB-9)	Y (10-pin)	Y (DB-9)	Y (10-pin)
PS/2 KB/MS							Y	
Compact Flash	Optional ⁽¹⁾							Optional ⁽³⁾
SATA		Y ⁽¹⁾		Y x2 ⁽²⁾		Y x2 ⁽²⁾		Y x3 ⁽³⁾
SCSI			Y	Y			Y	Y
PIM						Y		
Floppy				Y		Y		Y
LED	Y x5		Y x5					
Reset Button	Y		Y					

(1) Removable SATA adapter for 2.5" SATA HDD direct connector and can be replaced to CompactFlash adapter for CF slot.

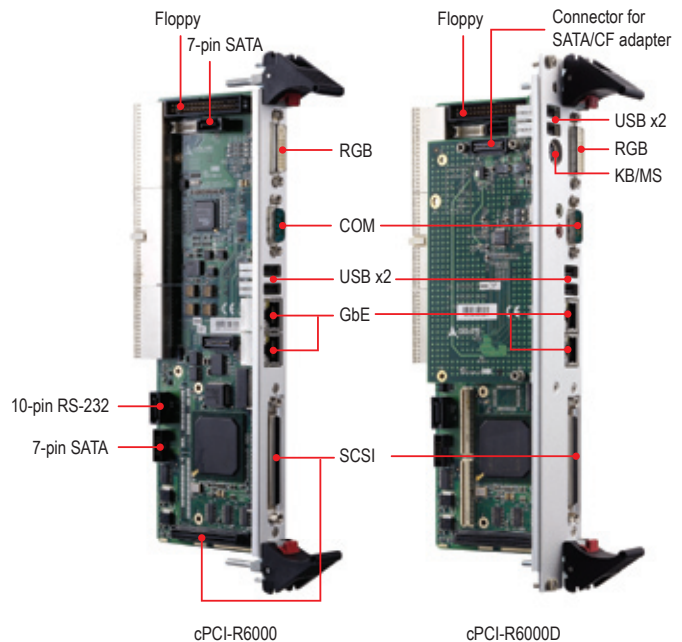
(2) Two 7-pin signal connectors onboard for external SATA HDDs.

(3) Two 7-pin signal connectors onboard for external HDDs and one direct connector for onboard 2.5" SATA HDD. SATA direct connector can be replaced by CompactFlash adapter for CF slot.

Ordering Information

Model Number	Description/Configuration
CPU Board	
cPCI-6880/T94/M1-0	6U CompactPCI® blade with Core™2 Duo 2.53GHz (T9500) processor and 1GB soldered DDR2 memory
cPCI-6880/T94/M0-2	6U CompactPCI® blade with Core™2 Duo 2.53GHz (T9500) processor and 2GB DDR2 SODIMM
cPCI-6880/T94/M2-2	6U CompactPCI® blade with Core™2 Duo 2.53GHz (T9500) processor, 2GB soldered and 2GB SODIMM DDR2 memory
cPCI-6880/T75/M0-2	6U CompactPCI® blade with Core™2 Duo 2.2GHz (T7500) processor and 2GB SODIMM DDR2 memory
cPCI-6880/575/M0-1	6U CompactPCI® blade with Celeron® 2.0GHz (575) processor and 1GB SODIMM DDR2 memory
Rear Transition Module	
cPCI-R6000	4HP Rear I/O module for cPCI-6880
cPCI-R6000D	8HP Rear I/O module for cPCI-6880
cPCI-R6000P	4HP Rear I/O module for cPCI-6880 with PIM interface
Mezzanine	
DB-CF-SA	CompactFlash socket adaptor kit

Contact your ADLINK representative for different CPU, memory combinations.



10-pin RS-232

7-pin SATA

cPCI-R6000

cPCI-R6000D