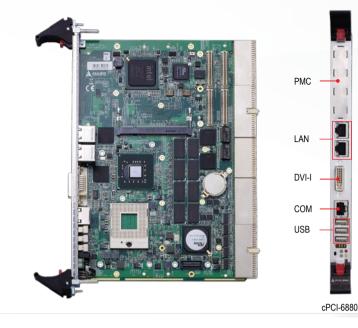
cPCI-6880 Series

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 memory (soldered + SO-DIMM)
- DVI + VGA display interfaces
- Four PCI-Express GbE ports
- Supports system/peripheral operation



Specifications

Processor & System

CPU	µFC-PGA Intel [®] Core™2 Duo Processor SV 2.53GHz (T9400), 6MB L2, FSB 1066MHz, TDP 35W
	uFC-PGA Intel [®] Core [™] 2 Duo Processor LV 2.26GHz (P8400), 3MB L2, FSB 1066MHz, TDP 25W
	μFC-PGA Intel [®] Core [™] 2 Duo Processor 2.2GHz (T7500), 4MB L2, FSB 800MHz, TDP 35W
	μFC-PGA Intel [®] singal-core Celeron [®] M 2.0GHz (575), 1MB L2, FSB 667MHz, TDP 31W
	uFC-PGA Intel [®] dual-core Celeron [®] 1.9GHz (T3100), 1MB L2, FSB 800MHz, TDP 35W
Chipset	Intel [®] GM45 with ICH9M
RAM	Dual channel DDR2-667/800 SDRAM, up to 8GB
	One channel for soldered memory, up to 4GB; one channel for SO-DIMM socket
BIOS	AMIBIOS®8 dual 16Mbit SPI Flash memory
2.00	Supports failover
CompactPCI Bus	PCI 64bit/ 66MHz, 3.3V or 5V universal V (I/O)
·	Supports operation in system slot and peripheral slot (cPCI-6880P cannot be installed in a peripheral slot with CT
	bus backplane)
PICMG Standards	PICMG [®] 2.0 CompactPCI R3.0
	PICMG [®] 2.1 Hot Swap R2.0
	PICMG [®] 2.9 System Management v1.5 R1.0
	PICMG [®] 2.16 Packet Switching Backplane R1.0

Connectivity

PMC	One PCI 64bit/66MHz PMC site				
Ethernet	Four PCI-Express Intel® 82573L Gigabit Ethernet controllers				
	Two 10/100/1000BASE-T front panel ports				
	Two 10/100/1000BASE-T PICMG® 2.16 ports				
	Two additional 10/100/1000BASE-T ports from Intel® 82576EB on RTM cPCI-R6100				
Graphics	Integrated in Intel [®] GM45, powered by Gen-5.0 Graphics Architecture				
	One DVI-I (digital+analog) port on front panel (Contact ADLINK if need DVI support on RTM)				
	Analog VGA signal routed to RTM (mirror of VGA)				
	Additional discrete ATI/AMD E4690 GPU supporting two DVI-I ports on RTM cPCI-R6700				
	Analog monitor supports up to QXGA				
USB	Three USB 2.0 front panel ports				
	Six USB ports routed to RTM				
PS/2	PS/2 Keyboard Mouse port routed to RTM				
Serial Port	Max. three 16C550 compatible serial ports				
	One RJ45 port on front panel, two serial ports routed to RTM				

Storage \

Storage					
SBC	Built in 4GB USB NAND flash onboard (Standard temperature range support only) One removable SATA direct connector for 2.5" onboard HDD Optional CF socket to replace SATA direct connector				
	(Standard temperature range support only)				
RTM*	Up to 3 SATA ports				
	CF (x1) and SD (x1) sockets				
	Eight SAS ports by LSISAS1068E with hardware RAID by two mini SAS x4 connectors				
	*Available interfaces dependent on RTM model selected				
Operating	System				
OS	Microsoft Windows® XP Professional				
	Microsoft Windows® XP x64 Edition				
	Microsoft Windows [®] Vista x64 Edition				
	Microsoft Windows [®] 7				
	Red Hat Enterprise Linux 5.1				
	Wind River VxWorks 6.8, 6.6, 5.5.1				

(Please contact ADLINK for other OS support)

Miscellaneous

LED	Power, WDT, Hot Swap, Hard Disk
Battery	Coin cell lithium battery onboard for RTC CMOS RAM
Watchdog Timer	System Reset and NMI, with Programmable Interval, 1-65535 seconds or minutes
Hardware Monitor	Monitors CPU & system temperatures, Vcore and DC voltages

Mechanical & Environmental 📏

Form Factor	6U 4HP CompactPCI® 233.33mm x 160mm (LxW)					
	cPCI-6880: equipped with CompactPCI connectors J1,J2,J3,J5					
	cPCI-6880P: equipped with CompactPCI connectors J1, J2, J3, J4, J5					
Operating Temp.	0°C to +60°C standard					
	-20°C to +70°C extended temperature (cPCI-ET6880)					
Storage Temp.	-40°C to +85°C					
Rel. Humidity	95% @60°C, non-condensing					
Shock	15G peak-to-peak, 11ms duration, non-operating					
Vibration	1.88 Grms, 5-500Hz, each axis, operating (with CF card)					
Power Consumption	Single Core [™] 2 Duo T9400, 4GB DDR2-800, 100GB SATA					
	HDD onboard under Windows [®] XP with 100% CPU loading					
	Current (A) Power (W)					
	5V 8.46 42.3					
	3.3V 2.20 7.26					
	Total 49.56					
Weight	Net weight 858g with heatsink					
Safety & EMI						
Certifications	CE, FCC					

I/O Table

		GbE	USB 2.0	СОМ	DVI	VGA	РМС	SATA	CF	Mic-in	Line-out	PS/2 KB/MS	SD	SAS
						SBC	;							
cPCI-6880	Faceplate	2	3	1 (RJ-45)	1 (D	VI-I)								
	Onboard						1	1(1)	1(1)					
						RTM	1							
cPCI-R6002	Faceplate	2	2	1 (DB-9)		1								
	Onboard		1 (5-pin)	1 ⁽²⁾ (10-pin)				2 (7-pin)						
cPCI-R6000P	Faceplate	2	2	1 (DB-9)		1								
	Onboard		1 (5-pin)	1 (10-pin)			1 (PIM)	2 (7-pin)						
cPCI-R6100	Faceplate	4	4	1 (RJ-45)		1						1		
	Onboard							2 (7-pin)	1 (4)				1	
cPCI-R6110	Faceplate	2	4			1						1		
	Onboard							3(3)	1 (4)				1	
cPCI-R6200	Faceplate	2	5	1 (DB-9)		1				1	1	1		4 (SFF-8088)
	Onboard		1 (5-pin)	1 ⁽²⁾ (10-pin)				3(3)	1 (optional) ⁽³⁾					4 (SFF-8087)
cPCI-R6700	Faceplate	2	3	1 (DB-9)	2 (D	VI-I)								
CPGI-R6700	Onboard		1 (5-pin)	1 ⁽²⁾ (10-pin)				3 (7-pin)		1 (1	0-pin)	1 (10-pin)		

(1) Removable SATA connector adapter for onboard 2.5" HDD. Optional CompactFlash socket is supported by replacing SATA connector adapter with CompactFlash adapter. 2.5" HDD and CF share the same space and cannot be installed simultaneously.

(2) Tx, Rx signals only

(3) Two 7-pin signal connectors onboard for external HDDs and one direct connector for onboard 2.5" SATA HDD. Optional CompactFlash slot is supported by replacing SATA connector adapter with Compact Flash adapter. SATA HDD and CF cannot be used simultaneously.

(4) Converted from USB

Ordering Information

Model Number	Description/Configuration						
Processor Blades							
cPCI-6880/T94/M2-0	6U CompactPCI [®] blade with Core™2 Duo 2.53GHz (T9400) processor and 2GB soldered DDR2-800 memory						
cPCI-6880/T94/M0-2	6U CompactPCI [®] blade with Core™2 Duo 2.53GHz (T9400) processor and 2GB DDR2-800 SODIMM						
cPCI-6880/T94/M4-0	6U CompactPCI [®] blade with Core™2 Duo 2.53GHz (T9400) processor, 4GB soldered DDR2-667 memory						
cPCI-6880/P84/M0-2	6U CompactPCI [®] blade with Core [™] 2 Duo 2.26GHz (P8400) processor and 2 GB DDR2-800 SODIMM memory						
cPCI-6880/T31/M0-2	6U CompactPCI® blade with dual core Celeron® 1.9GHz (T3100) processor and 2GB DDR2-800 SODIMM memory						
cPCI-6880P/T94/M0-2	6U CompactPCI [®] blade with Core™2 Duo 2.53GHz (T9400) processor and 2GB DDR2-800 SODIMM memory with PIM support						
SATA adapter is include	d in package of CPU board						
Rear Transition Module	S						
cPCI-R6002	4HP Rear I/O module with GbE x2, COM x2, USB x3, SATA x2, VGA						
cPCI-R6000P	4HP Rear I/O module with GbE x2, COM x2, USB x3, SATA x2, PIM, VGA (for cPCI-6880P)						
cPCI-R6100	4HP Rear I/O module with GbE x4, COM, USB x4, SATA x2, VGA, PS/2, CF, SD						
cPCI-R6110	4HP Rear I/O module with GbE x2, USB x4, SATA x3, VGA, PS/2, CF, SD						
cPCI-R6200	8HP Rear I/O module with GbE x2, USB x6, VGA, SATA x3, Mic-in, Line-out, PS/2 KB/MS, SAS x8						
cPCI-R6700	4HP Rear I/O module with discrete GPU ATI/AMD E4690, DVI-I x2, GbE x2, USB x3, COM x2, KB/MS hearder, SATA x3, audio header						

Mezzanines

DB-CF-SB	CompactFlash socket adapter kit for cPCI-6880
DB-CF-SA	CompactFlash socket adapter kit for cPCI-R6002D, cPCI-R6200

Contact your ADLINK representative for different CPU, memory combinations. See 6U RTM selection guide for more options.

