

# Selection Guide

## 6U CompactPCI® SBC



Model Name		cPCI-6920		cPCI-6880	cPCI-6965	
		cPCI-6920	cPCI-6920D		cPCI-6965	cPCI-6965D
CPU and Core Logic	CPU Support	Quad/Dual-Core Intel® Xeon®	2x Quad/Dual-Core Intel® Xeon®	Intel® Core™2 Duo/ Celeron® M	Intel® Core™2 Duo/ Celeron® M	
	CPU Speed	2.13GHz		2.53GHz/ 2.0GHz	2.2GHz/ 2.0GHz	
	Chipset	5100 MCH/ICH9R		GM45/ICH9M	GME965/ICH8M	
	FSB (MHz)	1066		1066/533	800/533	
Form Factor & Bus	PICMG Spec.	2.0 (R3.0), 2.1 (R2.0), 2.9 (R1.0), 2.16 (R1.0) (IPMI v1.5)		2.0 (R3.0), 2.1 (R2.0), 2.9 (R1.0), 2.16 (R1.0) (IPMI v1.5)	2.0 (R3.0), 2.1 (R2.0)	
	Form Factor	6U		6U	6U	
	Slot Width	1	2	1	1	2
	Host/Peripheral	Satellite		Universal	Host	
	PCI Bandwidth (max.)	64-bit/66 MHz		64-bit/66 MHz	32-bit/33 MHz	
	PMC	--	1 (64-bit)	1 (64-bit)	--	1 (32-bit)
	XMC	--	1 (PCI-E x8)	--	--	--
Memory	DIMM Slots	2x DDR2 SODIMM	4x DDR2 SODIMM	1x DDR2 SODIMM	2x DDR2 SODIMM	
	Max. Soldered	--	--	4GB	--	
	Max. Memory	8GB	16GB	8GB	4GB	
	ECC Capability	Yes		No	No	
Display	Graphic Controller	ATI ES1000		GM45	GME965	
	Interfaces	VGA		DVI-I	DVI-I + DVI-D	
Ethernet	Gigabit Ethernet	4 (2F+2R)		4 (2F+2R)	2	
Storage	SCSI	Ultra-320 (on RTM)		Ultra-320 (on RTM)	Ultra-320 (on RTM)	
	SATA	4 (1F+3R)		4 (1F+3R)	3 (2F+1R)	
	IDE Interface	--		--	--	
I/O	CompactFlash	Yes		Yes	Yes	
	USB	6 (2F+4R)	8 (4F+4R)	7 (3F+4R)	8 (4F+4R)	
	Serial	2 R	3 (1F+2R)	3 (1F+2R)	1	2
	Parallel	--		--	--	1
Other	Keyboard / Mouse	1R	2 (1F+1R)	1R	--	1
	Support HS Periph.	Yes		Yes	Yes	
	Rear I/O	Yes		Yes	Yes	
Page Number	2-3		2-5	2-7		

Note: F-front SBC; R-Rear Transition Module

## Combinations of SBC with Chassis

Chassis Model	cPCI Bus	Page Number	cPCI-6920		cPCI-6880		cPCI-6965		
			Host	Periph.	Host	Periph.	Host	Periph.	
cPCIS-3300BLS	N/A	3-3	✓	✓			X	X	
cPCIS-3330	32-bit/33 MHz	3-5	X	X			X	X	
cPCIS-3330/64	64-bit/33 MHz	3-5	✓	✓			X	X	
cPCIS-3320	64-bit/66 MHz	3-7	✓	X			X	X	
cPCIS-6130R	64-bit/66 MHz	3-19	X	X			X	X	
cPCIS-6400U	64-bit/66 MHz	3-9	✓	✓			X	X	
cPCIS-6400U/32	32-bit/33 MHz	3-9	X	X	TBD		✓	X	
cPCIS-6400X	64-bit/66 MHz	3-11	X	X				X	X
cPCIS-6400X/32	32-bit/33 MHz	3-11	X	X				✓	X
cPCIS-6230R/6240R	32-bit/33 MHz	3-15	X	X			✓	X	
cPCIS-6418U	64-bit/33 MHz	3-13	✓	✓			X	X	
cPCIS-6230R/64	64-bit/66 MHz	3-15	X	X			X	X	
cPCIS-6230R/64/N110	64-bit/66 MHz	3-15	X	X			X	X	
cPCIS-6235R	32-bit/33 MHz	3-17	X	X			✓	X	
cPCIS-6235R/64	64-bit/66 MHz	3-17	X	X			X	X	

✓: Recommended, X: Insertion may damage board, -: Will not function, O: Not recommended, \*: SCSI HDD supported by cPCIS-6400US/6400XS



cPCI-6602	
cPCI-6602	cPCI-6602G
Intel® Core™2 Duo	
2.2GHz	
GME965/ICH8M	
800	
2.0 (R3.0), 2.1 (R2.0), 2.9 (R1.0), 2.16 (R1.0) (IPMI v1.5)	
6U	
2	2
Host	
32-bit/33 MHz	
1 (64-bit)	
--	
2x DDR2 SODIMM	
--	--
4GB	
No	
GME965	ATI M72-CSP128
VGA	VGA + DVI-D
3 (1F+2R/2F+1R)	
Ultra-320 (on RTM)	
3(1F+2R)	
--	
Yes	
4 (2F+2R)	
1	
--	
1	
Yes	
Yes	
2-9	

cPCI-6910	
Dual-Core Intel® Xeon® LV/ULV	
LV: 1.66, 2.0 GHz; ULV: 1.66 GHz	
Intel® E7520/6300ESB	
667	
2.0 (R3.0), 2.1 (R2.0), 2.9 (R1.0), 2.16 (R1.0) (IPMI v1.5)	
6U	
1	
Universal	
64-bit/66 MHz	
1 (64-bit)	
--	
2 GB	
2 GB	
Yes	
ATI ES1000	
VGA	
4 (2F + 2R)	
Ultra-320 (on RTM)	
2 (1F + 1R)	
2 (1F + 1R)	
Yes	
4 (2F + 2R)	
1F + 1R	
--	
1F	
Yes	
Yes	
2-11	

cPCI-6840	
cPCI-6840	cPCI-6840V
Intel® Pentium® M/Celeron® M	
1.8/1.3 GHz	
Intel® 855GME/6300ESB	
400	
2.0 (R3.0), 2.1 (R2.0), 2.9(R1.0), 2.16 (R1.0) (IPMI v1.5)	
6U	
1	1
Universal	
64-bit/66 MHz	
2 (64-bit)	1 (64-bit)
--	
2x DDR SO-DIMM	
--	
2 GB	
Yes	
855GME	
VGA + DVI + LVDS	
3 (1F+2R)	
--	
2R	
2 (1F + 1R)	
Yes (RTM)	
4 (2F + 2R)	
1F + 1R	
--	
1R	1F or 1R
Yes	
Yes	
2-13	

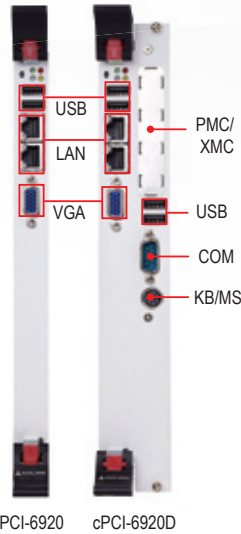
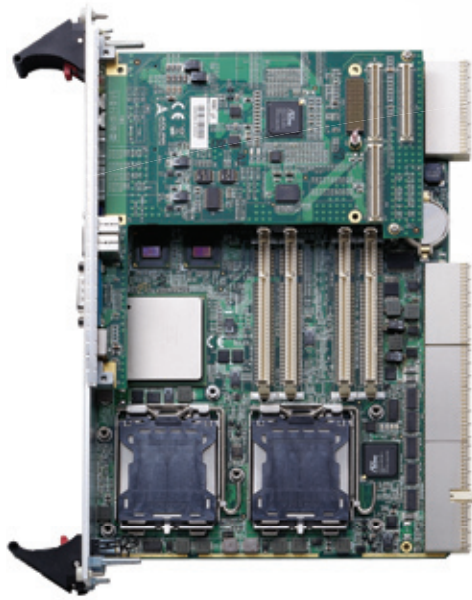
cPCI-6842	
cPCI-6842	cPCI-6842-2
Intel® Pentium® M/Celeron® M	
1.8/1.3 GHz	
Intel® 855GME/ICH4	
400	
2.0	
6U	
2	
Host	
32-bit/33 MHz	
1 (32-bit)	
--	
2x DDR DIMM	
--	
2 GB	
Yes	
855GME	
VGA	VGA + DVI
2	
--	
--	
1	
Yes	--
2	4
2	
1	
1	
No	
No	
2-15	

cPCI-6602		cPCI-6910		cPCI-6840		cPCI-6842
Host	Periph.	Host	Periph.	Host	Periph.	Host Only
✓	X	✓	-	✓	-	X
✓	X	X	X	X	✓	✓
✓	X	✓	X	✓	✓	O
✓	X	✓	X	✓	✓	O
✓	X	✓	X	✓	✓	O
✓	X	✓*	X	✓*	✓	O
✓	X	X	X	X	✓	✓*
✓	X	✓*	X	✓*	✓	O
✓	X	X	X	X	✓	✓*
✓	X	X	X	X	✓	✓
✓	X	✓	X	✓	✓	O
✓	X	X	X	✓	✓	O
✓	X	X	X	✓	✓	O
✓	X	X	✓	✓	✓	O
✓	X	X	X	X	✓	✓
✓	X	✓	X	✓	✓	O

# cPCI-6920 Series

## 6U CompactPCI® Dual Quad-Core Intel® Xeon® Processor Blade

6U cPCI SBC



### Features

- 2x Quad-Core/Dual-Core Intel® Xeon® LV Processors
- Four SO-RDIMMs for up to 16GB REG/ECC memory
- Four PCI-Express Gigabit Ethernet ports
- 64bit/66MHz PMC/PCI-Express x8 XMC
- Onboard SATA HDD, CompactFlash and USB NAND flash storage

## Specifications

### Processor & System

CPU	FC-LGA771 Quad-Core Intel® Xeon® Processor 2.13GHz (L5408), 12MB L2 cache, 1066MHz FSB FC-LGA771 Dual-Core Intel® Xeon® Processor LV 2.13GHz (5138), 4MB L2 cache, 1066MHz FSB Passive heatsink
	Single processor in 4HP cPCI-6920 Dual processors in 8HP cPCI-6920D
Chipset	Intel® 5100 MCH and ICH9R I/O Controller Hub
RAM	Dual channel DDR2-667 registered memory with ECC, up to 16GB 4HP: Two 200-pin SO-RDIMM sockets 8HP: Four 200-pin SO-RDIMM sockets
BIOS	AMI legacy BIOS, 16Mbit SPI flash memory
CompactPCI Bus	64bit/66MHz CompactPCI® Bus, V(I/O) 3.3V only Supports operation in system slot as system master or in peripheral slot as stand-alone server blade without connectivity to CompactPCI® bus
PICMG standard	PICMG® 2.0 CompactPCI® R3.0 PICMG® 2.1 Hot Swap R2.0 PICMG® 2.9 System Management v.1.5 R1.0 PICMG® 2.16 Packet Switch Backplane R1.0

### Connectivity

PMC/XMC	PCI 64bit/66MHz PMC or PCI-Express x8 XMC site, 3.3V PCI signaling (8HP version only)
Ethernet	Two PCI-Express Intel® 82571EB dual port Gigabit Ethernet controllers Two 10/100/1000BASE-T front panel ports Two 10/100/1000BASE-T PICMG® 2.16 ports
Graphics	AMD ATI ES1000 on PCI 32bit/33MHz bus DDR2-533 64MB Graphics Memory Analog RGB up to 32bit 1600x1200@60Hz refresh rate DB-15 VGA port on front panel and rear panel, mirror display
USB	Maximum up to four USB 2.0 ports on front panel Six USB 2.0 ports routed to rear

PS/2	One PS/2 Keyboard/Mouse Combo port on front panel or rear panel (8HP version only)
Serial Port	One DB-9 16C550 compatible RS-232 port on front panel (8HP version only) Two serial ports are routed to rear

### Storage

SBC	Built-in 4GB USB NAND flash onboard Removable CompactFlash socket onboard Optional SATA port for 2.5" HDD direct mounting
RTM	Two onboard 7-pin connectors for external SATA hard drives One SATA port for 2.5" onboard SATA HDD (8HP version only) Optional CompactFlash slot onboard (8HP version only) One internal and one external 68-pin SCSI connector by LSI53C1020 SCSI Ultra320 single channel controller

### Operating System

OS	Microsoft Windows® XP Professional Microsoft Windows® Server 2003 Fedora™ 8 Vxworks 6.6
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### Miscellaneous

LED	Power, WDT, Hot Swap, Hard Disk
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 min
Hardware Monitor	Monitoring of CPU temperature, system temperature, Vcore and DC voltages

## Mechanical & Environmental

Form Factor	6U 4HP/ 8HP CompactPCI 233.33mm x 160mm (LxW)
Operating Temp.	0 to 55°C with forced air flow
Storage Temp.	-40 to 85°C
Rel. Humidity	90%@60°C (non-condensing)
Shock	15 G peak to peak, 11ms duration, non-operating
Vibration	1.88 Grms, 5-500 Hz, X,Y, Z axis, operating IEC68-2-64 standard

Power Consumption	Single Quad-Core L5408, 4x 2GB SO-RDIMMs, 60GB SATA HDD onboard under Windows XP with 100% CPU loading	
	Current(A)	Power(W)
	5V	13.9 69.5
	3.3V	11.9 39.3
	Total	108.8

## Safety & EMI

Certifications	CE/FCC Class A
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## I/O Table

Function	cPCI-6920 (4HP)		cPCI-6920D (8HP)		cPCI-R6000-920 (4HP)		cPCI-R6000-920D (8HP)	
	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard
Gigabit Ethernet	Y x2		Y x2		Y x2 (2.16)		Y x2 (2.16)	
COM 1			Y (DB-9)					
COM 2					Y (DB-9)		Y (DB-9)	
COM 3						Y (10-pin)		Y (10-pin)
USB 2.0	Y x2		Y x4		Y x2	Y (5-pin)	Y x4	Y (5-pin)
PMC/XMC			Y					
VGA	Y		Y		Y		Y	
Serial ATA		Optional <sup>(1)</sup>		Optional <sup>(1)</sup>		Y x2 (7-pin)		Y x3 <sup>(2)</sup>
Compact Flash		Y		Y				Optional <sup>(3)</sup>
PS/2 KB/MS			Y				Y	
USB Flash		Y		Y				
SCSI					Y	Y	Y	Y
GP LED	Y x4		Y x4					
Reset Button	Y		Y					

(1): Optional SATA HDD adapter kit (DB-SATA) for 2.5" SATA HDD onboard mounting. (2.5" HDD and CF share the same space and cannot be installed simultaneously)

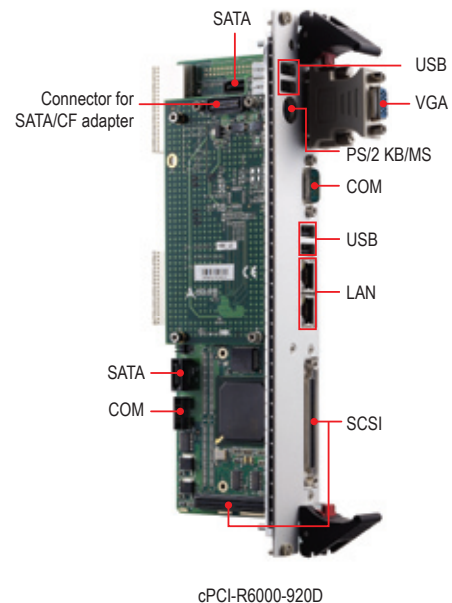
(2): Two 7-pin SATA connectors for external HDDs and one connector for onboard 2.5" SATA HDD.

(3): Optional CF socket adapter kit (DB-CF-SA) for additional CF socket. (CF and 2.5" HDD share the same space and cannot be installed simultaneously)

## Ordering Information

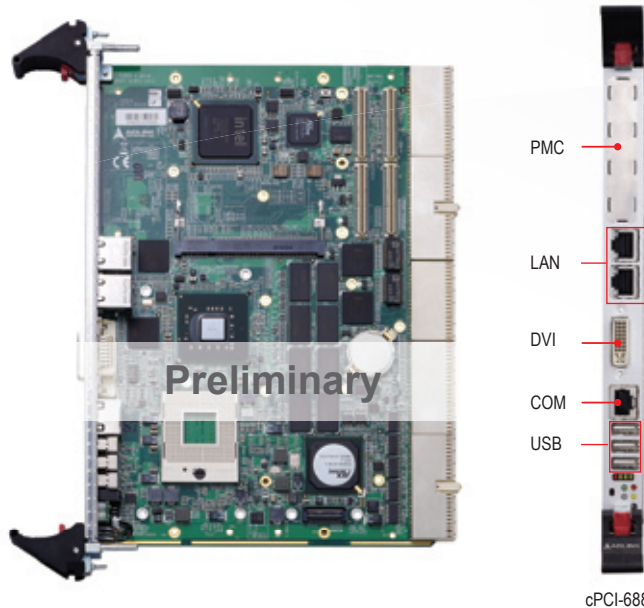
Model Number	Description/Configuration
<b>CPU Board</b>	
cPCI-6920	Single slot width (4HP) 6U Quad-Core/Dual-Core Xeon® processors SBC (without CPU & memory)
cPCI-6920D	Dual slot width (8HP) 6U Quad-Core/Dual-Core Xeon® processors SBC (without CPU & memory)
cPCI-6920/S408/M2G	4HP cPCI-6920 with 1 x Quad-Core Xeon® 2.13GHz (L5408), 2GB SO-RDIMM
cPCI-6920/S408/M4G	4HP cPCI-6920 with 1 x Quad-Core LV Xeon® 2.13GHz (L5408), 2x 2GB SO-RDIMM
cPCI-6920D/S408/M4G	8HP cPCI-6920D with 1 x Quad-Core Xeon® 2.13GHz (L5408), 2x 2GB SO-RDIMM
cPCI-6920D/D408/M8G	8HP cPCI-6920D with 2 x Quad-Core Xeon® 2.13GHz (L5408), 4x 2GB SO-RDIMM
cPCI-6920D/D138/M2G	8HP cPCI-6920D with 2 x Dual-Core Xeon® 2.13GHz (LV5138), 2GB SO-RDIMM
cPCI-6920D/S408/M4G/S80G	8HP cPCI-6920D with 1 x Quad-Core Xeon® 2.13GHz (L5408), 2x 2GB SO-RDIMM, 80GB SATA HDD (without CF socket)
<b>Rear Transition Module</b>	
cPCI-R6000-920	4HP Rear I/O module for cPCI-6920 series
cPCI-R6000-920D	8HP Rear I/O module for cPCI-6920 series
<b>Mezzanine</b>	
DB-CF-SA	CompactFlash socket adapter kit
DB-SATA	2.5" SATA HDD adapter kit

Contact your ADLINK representative for different CPU, memory combinations.



# 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>
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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>
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### Operating System

OS	Microsoft Windows® XP Professional (Please contact ADLINK for other OS support)
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### 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
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## 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 <sup>(1)</sup>							Optional <sup>(3)</sup>
SATA		Y <sup>(1)</sup>		Y x2 <sup>(2)</sup>		Y x2 <sup>(2)</sup>		Y x3 <sup>(3)</sup>
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.

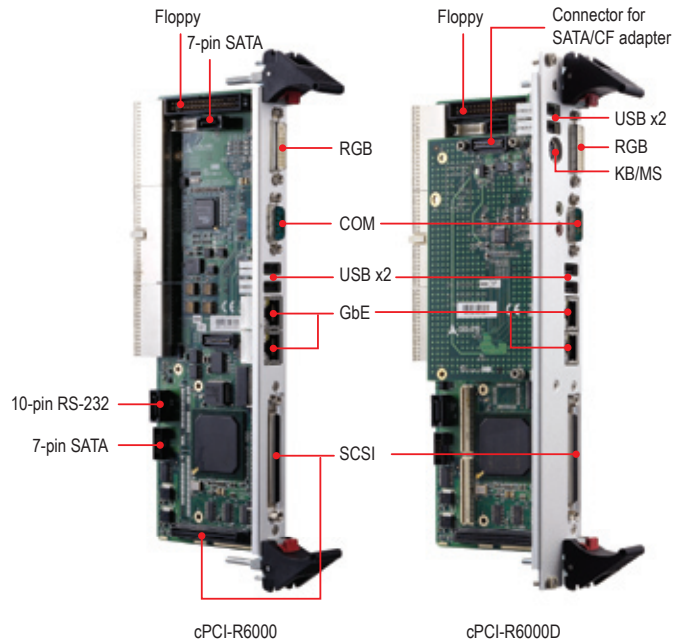
(2) Two 7-pin signal connectors onboard for external SATA HDDs.

(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

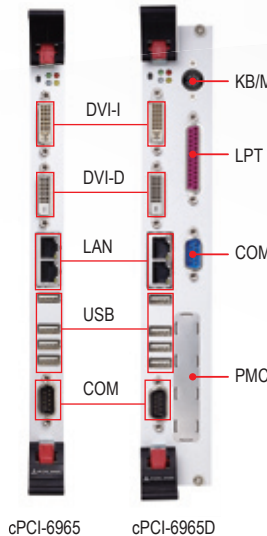
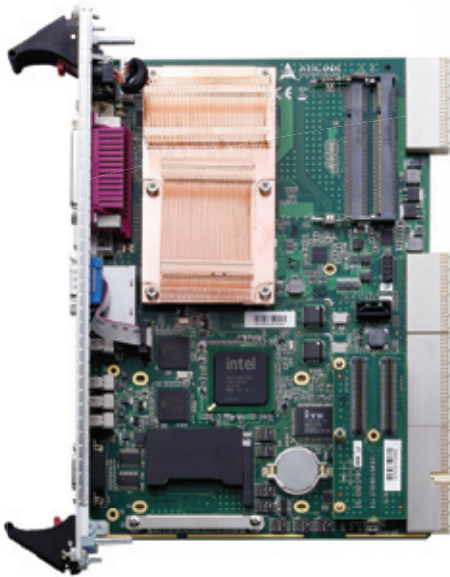
Model Number	Description/Configuration
<b>CPU Board</b>	
cPCI-6880/T94/M1-0	6U CompactPCI® blade with Core™2 Duo 2.53GHz (T9400) processor and 1GB soldered DDR2 memory
cPCI-6880/T94/M0-2	6U CompactPCI® blade with Core™2 Duo 2.53GHz (T9400) processor and 2GB DDR2 SODIMM
cPCI-6880/T94/M2-2	6U CompactPCI® blade with Core™2 Duo 2.53GHz (T9400) 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
<b>Rear Transition Module</b>	
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
<b>Mezzanine</b>	
DB-CF-SA	CompactFlash socket adaptor kit

Contact your ADLINK representative for different CPU, memory combinations.



# cPCI-6965 Series

Value 6U CompactPCI® Intel® Core™2 Duo Processor Blade with Dual Independent Displays



## Features

- Low power Intel® Core™2 Duo 2.2GHz
- Dual Channel DDR2-667 SODIMM, up to 4GB
- Dual independent display (DVI+VGA or DVI+DVI)
- Two egress PCI-Express Gigabit Ethernet ports
- Serial ATA, USB SSD module and CompactFlash storage options

## Specifications

### Processor System

CPU	<p>µFC-PGA Intel® Core™2 Duo 2.2GHz (T7500), 4MB L2 cache, FSB 800MHz</p> <p>µFC-PGA Intel® Celeron® M 2.0GHz (550), 1MB L2 cache, FSB 533MHz</p>
Chipset	Intel® GME965 with ICH8M
RAM	Dual Channel DDR2-667 SDRAM with two SO-DIMM sockets, up to 4GB capacity
BIOS	AMI® Core 8 16Mbit SPI Flash memory
CompactPCI Bus	32-bit/ 33 MHz CompactPCI® Bus
PICMG standard	<p>PICMG® 2.0 CompactPCI R3.0</p> <p>PICMG® 2.1 Hotswap R2.0</p>

### Connectivity

PMC	One 32-bit/33 MHz PMC site
Ethernet	<p>Two PCI-Express Intel® 82573L Gigabit Ethernet controllers</p> <p>Two egress GbE ports</p>
Graphics	<p>Integrated in GME965</p> <p>One DVI-D and one DVI-I ports on front panel</p> <p>Analog CRT supports up to 2048x1536 resolution @ 75Hz refresh rate</p>
USB	<p>Four front panel USB 2.0 ports</p> <p>Four rear panel USB 2.0 ports, one 5-pin header on RTM</p>
PS/2	One PS/2 KB/MS Combo Port
Serial Port	Two front panel DB-9 RS-232/422/485/485+ selectable serial ports
Printer port	One front panel printer port
Audio	Mic-in, line-out ports on RTM
Floppy	Onboard pin header on RTM

### Storage

SBC	<p>One SATA port for 2.5" hard drive direct mounting</p> <p>One 7-pin signal SATA port for external hard drive</p> <p>Optional USB SSD module, up to 8GB</p> <p>One CompactFlash slot</p>
RTM	<p>One SATA port for 2.5" hard drive direct mounting (8HP version only)</p> <p>Optional CompactFlash slot (8HP version only)</p> <p>One internal and one external 68-pin SCSI connector by LSI53C1020 SCSI Ultra320 single channel controller</p>

### Operating System

OS	<p>Microsoft Windows® XP Professional</p> <p>Microsoft Windows® Vista Enterprise</p> <p>Fedora™ 9</p>
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### Miscellaneous

LED	Power, WDT, HDD, General Purpose
Battery	Coin cell Lithium Battery onboard for RTC CMOS RAM for BIOS configuration
Hardware Monitor	Integrated in super I/O IT8712F, monitoring CPU temperature, system temperature, Vcore and DC voltages
Watchdog Timer	Integrated in super I/O IT8712F, two stage watchdog timer

## Mechanical & Environmental

Form Factor	6U 4HP/8HP CompactPCI® 100 mm x 160mm (L x W)
Operating Temp.	0 to 55°C (with forced air flow)
Storage Temp.	-40 to 85°C
Rel. Humidity	90% @ 60°C (non-condensing)
Shock	15G peak-to-peak, 11ms duration, non-operating
Vibration	1.88 Grms, 5-500Hz, each axis, operating IEC68-2-64 standard
Power Consumption	TBD

## Safety & EMI

Certifications	EN55022 CE, FCC Class A
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## I/O Table

Function	cPCI-6965 (4HP)		cPCI-6965D (8HP)		cPCI-R6000-965(4HP)		cPCI-R6000-965D(8HP)	
	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard
GbE	Y x2	-	Y x2	-	-	-	-	-
USB 2.0	Y x4	-	Y x4	-	Y x2	Y (5-pin)	Y x4	Y (5-pin)
DVI-D	Y	-	Y	-	-	-	-	-
DVI-I	Y	-	Y	-	-	-	-	-
VGA	-	-	-	-	Y	-	Y	-
COM	Y	-	Y x2	-	-	-	-	-
SATA	-	Y x2	-	Y x2	-	-	-	Y
CF	-	Y	-	Y	-	-	-	Optional
PS/2 KB/MS	-	-	Y	-	-	-	Y	-
Floppy	-	-	-	-	-	Y	-	Y
SCSI	-	-	-	-	Y	Y	Y	Y
Parallel	-	-	Y	-	-	-	-	-
Mic-in	-	-	-	-	-	-	Y	-
Line-out	-	-	-	-	-	-	Y	-
LED	Y x4	-	Y x4	-	-	-	-	-
Reset Button	Y	-	Y	-	-	-	-	-

## Ordering Information

Model Number	Description/Configuration
<b>CPU Board</b>	
cPCI-6965/550/M512	4HP (single slot) 6U CompactPCI® Celeron® 2.0GHz (550) processor blade and 512MB SODIMM
cPCI-6965/T75/M2G	4HP 6U CompactPCI® Core™2 Duo 2.2GHz (T7500) processor blade and 2x 1GB SODIMM
cPCI-6965D/550/M512	8HP 6U CompactPCI® Celeron® 2.0GHz (550) processor blade and 512MB SODIMM
cPCI-6965D/550/M1G	8HP (dual slot) 6U CompactPCI® Celeron® 2.0GHz(550) processor blade and 2x 512MB SODIMM
cPCI-6965D/T75/M1G	8HP 6U CompactPCI® Core™2 Duo 2.2GHz (T7500) processor blade and 2x 512MB SODIMM
cPCI-6965D/T75/M4G	8HP 6U CompactPCI® Core™2 Duo 2.2GHz (T7500) processor blade and 2x 2GB SODIMM
cPCI-6965DZ/T75/M2G	8HP 6U CompactPCI® Core™2 Duo 2.2 GHz (T7500) processor blade and 2x 1GB SODIMM, without J3, J5 cPCI connectors

### Rear Transition Module

cPCI-R6000-965	4HP Rear Transition Module for cPCI-6965(D) series
cPCI-R6000-965D	8HP Rear Transition Module for cPCI-6965(D) series

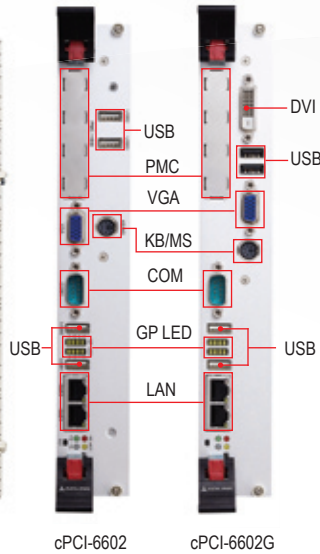
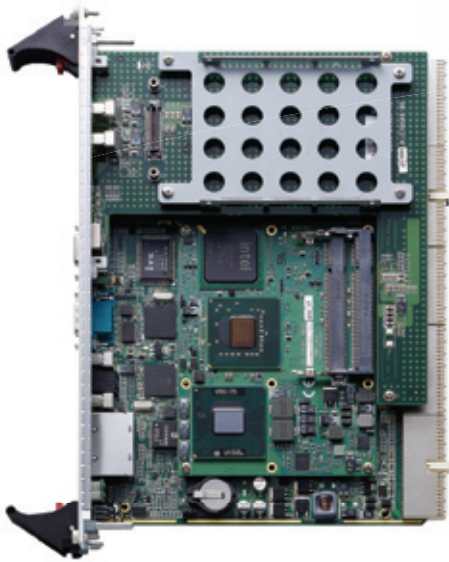
### Mezzanine

DB-CF-SA	CompactFlash socket adapter kit for cPCI-R6000-965D
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Contact your ADLINK representative for different CPU, memory combinations

# cPCI-6602 Series

6U CompactPCI® Intel® Core™2 Duo Processor SBC with GME965 Chipset



## Features

- Intel® Core™2 Duo processor, up to 2.2 GHz
- Intel® GME965 and ICH8M
- Dual channel DDR2-667 SODIMM, up to 4 GB
- Optional PCI-Express® x16 interface high performance graphics
- Up to three PCI-Express® Gigabit Ethernet ports
- Storage: SATA, CF, and SCSI

## Specifications

### Processor System

CPU	µFC-PGA Intel® Core™2 Duo (T7500) 2.2 GHz, 800 MHz FSB, 4 MB L2 cache
Chipset	Intel® GME965 Memory Controller Hub ICH8M Controller Hub
RAM	Dual Channel non-ECC DDR2 at 667MHz, two SO-DIMM sockets, maximum up to 4 GB
BIOS	Award-Phoenix® BIOS in 4 Mb FWH
CompactPCI Bus	PCI 32-bit/33 MHz, 3.3V or 5V universal V (I/O)
PICMG standard	PICMG® 2.0 CompactPCI R3.0 PICMG® 2.1 Hot Swap R2.0 PICMG® 2.9 System Management R1.0 (v1.5) PICMG® 2.16 Packet Switch Backplane R1.0

### Connectivity

PMC/XMC	One PCI™ 64-bit/66 MHz PMC slot
Ethernet	Three PCI-Express® Intel® 82573 single port controllers Two 10/100/1000BASE-T front panel ports Two 10/100/1000BASE-T PICMG® 2.16 ports (one is shared with front port)
Graphics	cPCI-6602: Integrated in GME965, one analog CRT port with up to 2048x1536 resolution cPCI-6602G: - AMD 3D GPU M72-CSP128 on native PCI-Express® x16 interface - 128 MB GDDR3 memory - Independent display on digital DVI port and analog CRT port
USB	Four USB 2.0 ports on front, two on RTM
PS/2	One PS/2 KB/MS combo port
Serial Port	One front panel DB-9 RS-232 serial port
Parallel	One printer port on RTM
Floppy	Onboard pin header on RTM

### Storage

SBC	SATA port for 2.5" HDD direct mounting (cPCI-6602 only) 7-pin SATA signal port for external HDD (cPCI-6602G only) CompactFlash slot onboard
RTM	2x 7-pin SATA port onboard for external HDDs Legacy floppy port

### Operating System

OS	Microsoft Windows® XP Professional Red Hat Linux® 9.0
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### Miscellaneous

LED	Power, WDT, Hot Swap, HDD General Purpose software programmable or Post Code LEDs (x8)
Battery	Coin cell Lithium Battery onboard for RTC CMOS RAM for BIOS configuration
Hardware Monitor	Integrated in super I/O IT8712F, monitoring CPU temperature, system temperature, CPU Vcore and DC voltages
WatchDog Timer	Integrated in super I/O IT8712F, two stage watchdog timer

### Mechanical & Environmental

Form Factor	6U 8HP (dual-slot) CompactPCI 233.33mm x 160mm (L x V)
Operating Temp.	0 to 60°C standard with external air flow
Storage Temp.	-40 to 80°C
Rel. Humidity	90%, non-condensing
Shock	15G peak-to-peak, 11ms duration, non-operation
Vibration	Operation: 0.5Grms, 5-500Hz, each axis Non-operation: 1.88Grms, 5-500Hz, each axis
Power Consumption	TBD

### Safety & EMI

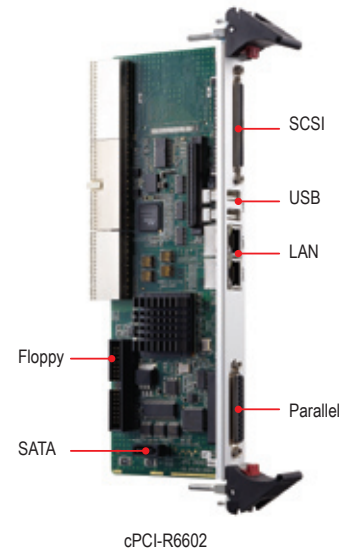
Certifications	CE, FCC Class A
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## I/O Table

Function	cPCI-6602		cPCI-6602G		cPCI-R6602	
	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard
GbE port1	Y		Y			
GbE port2	Y		Y		Y (J3), 2.16	
GbE port3					Y (J3), 2.16	
USB 2.0	Y x4		Y x4		Y (J4) x2	
VGA	Y		Y			
DVI-D			Y			
RS-232	Y		Y			
PS/2 KB/MS	Y		Y			
Compact Flash		Y		Y		
SATA150		Y (for 2.5" HDD direct connection)		Y (7-pin)		Y (J3) x2 (7-pin)
PMC	Y		Y			
Floppy						Y (J5)
Printer port					Y (J5)	
SCSI					Y (68-pin)	Y (68-pin)
GP LED	Y x4		Y x4			
Programmable LED	Y x8		Y x8			
Reset Button	Y		Y			

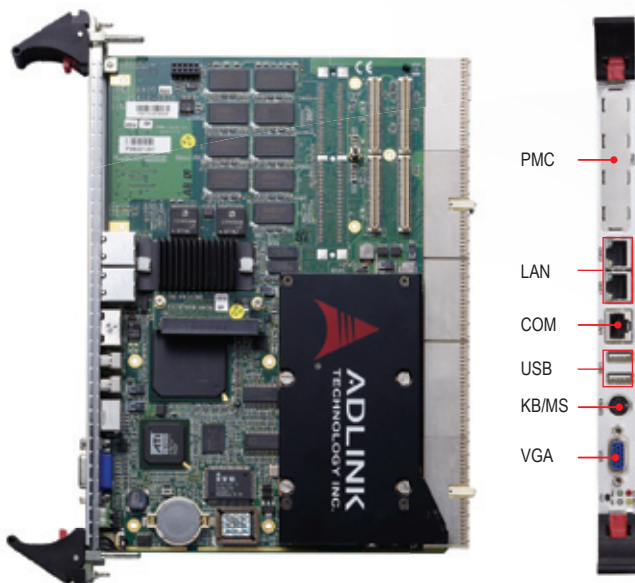
## Ordering Information

Model Number	Description/Configuration
<b>CPU Board</b>	
cPCI-6602	Dual slot 6U cPCI Core™2 Duo host SBC with 2x SODIMM sockets 2x GbE, 4x USB, RS-232, SATA, CF and VGA port (without CPU and memory)
cPCI-6602G	Dual slot 6U cPCI Core™2 Duo host SBC with 2x SODIMM sockets, 2x GbE, 4x USB, RS-232, SATA, CF and DVI and analog VGA port (without CPU and memory)
cPCI-6602G/T75/M2G	Dual slot 6U cPCI with Core™2 Duo 2.2GHz processor and 2x 1GB SODIMM
<b>Rear Transition Module</b>	
cPCI-R6602	Rear Transition Module for cPCI-6602(G) with 2xGbE, 2x USB, LPT, FDD, 68-pin SCSI and SATA x2



# cPCI-6910 Series

6U CompactPCI® Dual-Core Intel® Xeon® Processor LV / ULV Universal Blade



## Features

- Single Dual-Core™ Intel® Xeon® LV/ULV processors
- Soldered DDR2-400 REG/ECC memory
- Four PCI-Express Gigabit Ethernet ports
- One 64-bit/66 MHz PMC slot
- Multiple storage interfaces: Serial ATA, IDE, CF, Serial Attached SCSI, SCSI
- PICMG® 2.0, 2.1, 2.9, 2.16 compliant

## Specifications

### Processor System

CPU	Single Micro FCPGA Dual-Core Intel® Xeon® Processor in 65 nm process LV: 2.0 GHz, 667 MHz FSB, 2 MB L2 cache, 31W 1.66 GHz, 667 MHz FSB, 2 MB L2 cache, 31 W ULV: 1.66 GHz, 667 MHz FSB, 2 MB L2 cache, 15 W
Chipset	Intel® E7520 with 6300ESB
RAM	Up to 2 GB soldered DDR2-400 registered SDRAM with ECC
BIOS	Award-Phoenix 4 Mb flash memory
CompactPCI Bus	64-bit/66 MHz CompactPCI® Bus, 3.3V or 5V universal V(I/O) Operating in system slot and peripheral slot with CompactPCI bus connection
PICMG standard	PICMG® 2.0 CompactPCI R3.0 PICMG® 2.1 Hot Swap R2.0 PICMG® 2.9 System Management R1.0 PICMG® 2.16 Packet Switch Backplane R1.0

### Connectivity

PMC/XMC	One PMC slot on PCI 64-bit/66 MHz bus
Ethernet	Two PCI-Express Intel® 82571EB dual port Gigabit Ethernet controllers Two 10/100/1000BASE-T front panel ports Two 10/100/1000BASE-T PICMG 2.16 ports
Graphics	AMD ATI ES1000 GPU on SBC for front panel VGA output and XGI Z11 GPU on RTM cPCI-R6912 for VGA and DVI-D rear outputs Supports dual independent display with RTM cPCI-R6912 Graphics features on SBC: - DDR2-533 64MB Graphics Memory - Analog RGB up to 32bit 1600x1200@60Hz refresh rate Graphics features on cPCI-R6912: - DDR2-400 32MB Graphics Memory - Up to 1600x1200@70Hz 16M color - Mirror display on VGA and DVI
USB	Two USB 2.0 ports on front panel and two on rear panel
PS/2	One PS/2 Keyboard Mouse combo connector
Serial Port	One RJ-45 RS-232 port on front panel, one DB-15 RS-232 port on rear panel

### Storage

SBC	SATA or IDE connector for 2.5" HDD direct mounting Optional CompactFlash slot
RTM	cPCI-R6910: - SATA or SAS connector for 2.5" HDD direct mounting - CompactFlash socket onboard

### cPCI-R6911:

- 40-pin IDE connector for external HDD
- CompactFlash slot on panel
- 7-pin SATA connector for external HDD
- 68-pin internal and external SCSI connector by LSI53C1020 SCSI Ultra320 single channel controller, support RAID 0/1

### cPCI-R6912:

- CompactFlash slot on panel
- 7-pin SATA connector for external HDD

### Operating System

OS	Microsoft® Windows® 2000 Microsoft® Windows® Server® 2003 Microsoft® Windows® XP Professional Red Hat® Fedora™ Core 6 Linux® AS 3 & 4
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### Miscellaneous

LED	Power, Hot swap, HDD, WDT
Battery	Coin cell lithium battery onboard for RTC CMOS RAM for BIOS configuration
Hardware Monitor	Monitoring of CPU temperature, fan speed, system temperature, Vcore and DC voltages
Watchdog Timer	Two stage, System Reset and NMI, with programmable interval, 0-255 min.

### Mechanical & Environmental

Form Factor	6U 4HP (single slot) CompactPCI® 233.33 mm x 160 mm (L x W)
Operating Temp.	0°C to +70°C with ULV processor 0°C to +55°C with LV processor Extended temperature optional
Storage Temp.	-40°C to +80°C
Rel. Humidity	90% non-condensing
Shock	15 G peak-to-peak, 11 ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis Operation: 0.5 Grms, 5-500 Hz, each axis
Power Consumption	cPCI-6910 with 2 MB SDRAM with 100% CPU loading 40 W with ULV 1.66 GHz 44 W with LV 1.66 GHz 49 W with LV 2.0 GHz

### Safety & EMI

Certifications	CE, FCC Class A
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## I/O Table

Function	cPCI-6910		RTM (cPCI-R6910)		RTM (cPCI-R6911)		RTM (cPCI-R6912)	
	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard
Serial Port	Y		Y (J5)		Y (J5)		Y (J5)	
USB	Y x2		Y (J5) x2		Y (J5) x2		Y (J5) x2	
Gigabit Ethernet	Y x2		Y (J3) x2 (2.16)		Y (J3) x2 (2.16)		Y (J3) x2 (2.16)	
SCSI					Y (J3)	Y (J3)		
PS/2 KB/MS	Y							
VGA	Y						Y	
DVI							Y	
IDE		Y (44-pin)*				Y (J4, 40-pin)		
Compact Flash		Y*		Y	Y		Y	
SATA		Y*		Y (J5)*		Y (J5)		Y (J5)
SAS			Y (J5)*					
PMC	Y							
General Purpose LED	Y							
Reset button	Y							

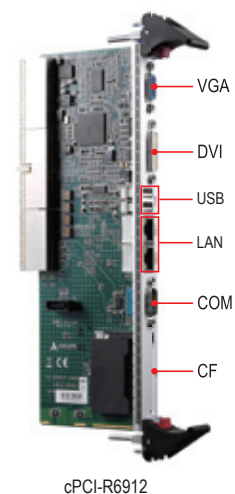
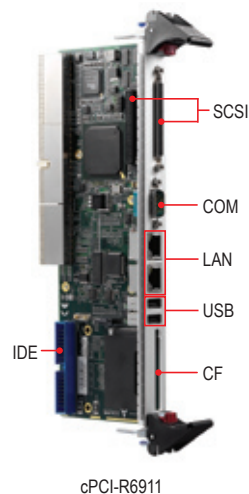
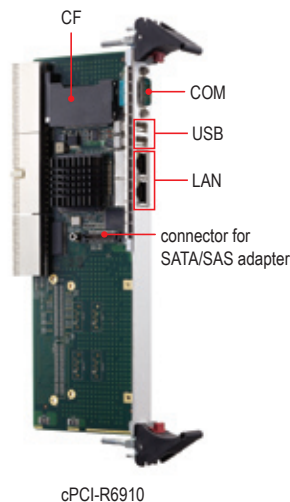
\* Removable adapter design

## Ordering Information

Model Number	Description/Configuration
<b>CPU Board</b>	
cPCI-6910/DCX20/M2G	6U cPCI Dual-Core Xeon® LV 2.0 GHz blade with 2 GB DDR2 ECC/REG soldered RAM; SATA and IDE adapter kits
cPCI-6910/DCX20/M1G	6U cPCI Dual-Core Xeon® LV 2.0 GHz blade with 1 GB DDR2 ECC/REG soldered RAM; SATA and IDE adapter kits
cPCI-6910/DCX16/M2G	6U cPCI Dual-Core Xeon® ULV 1.66 GHz blade with 2 GB DDR2 ECC/REG soldered RAM; SATA and IDE adapter kits
cPCI-6910/DCX16/M1G	6U cPCI Dual-Core Xeon® ULV 1.66 GHz blade with 1 GB DDR2 ECC/REG soldered RAM; SATA and IDE adapter kits
cPCI-6910/DXL16/M2G	6U cPCI Dual-Core Xeon® LV 1.66 GHz blade with 2 GB DDR2 ECC/REG soldered RAM; SATA and IDE adapter kits
cPCI-6910/DXL16/M1G	6U cPCI Dual-Core Xeon® LV 1.66 GHz blade with 1 GB DDR2 ECC/REG soldered RAM; SATA and IDE adapter kits

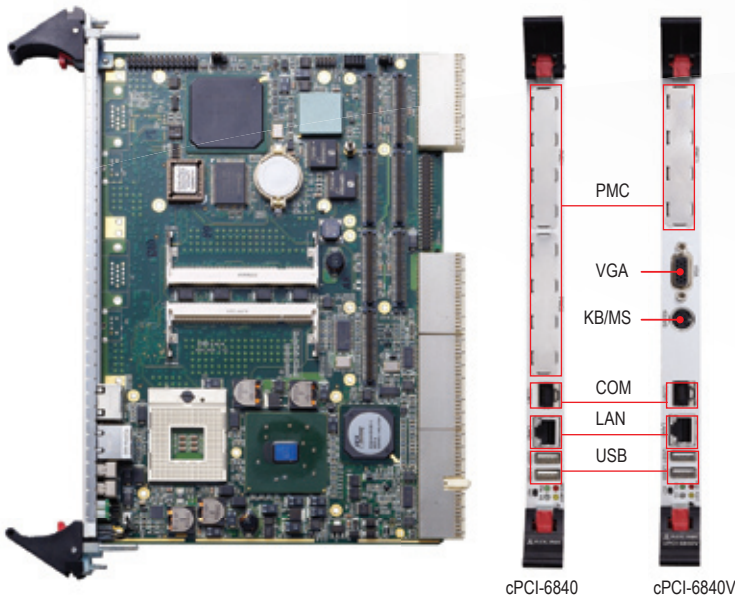
### Rear Transition Module

cPCI-R6910	6U cPCI Rear I/O Board for cPCI-6910 with SATA and SAS adapter kits
cPCI-R6911	6U cPCI Rear I/O Board for cPCI-6910 with two GbE, two USB, COM, SATA, CF, IDE and SCSI
cPCI-R6912	6U cPCI Rear I/O Board for cPCI-6910 with two GbE, two USB, COM, CF socket, VGA, DVI and SATA
<b>Mezzanine</b>	
DB-6910CF	CF adapter kit for cPCI-6910



# cPCI-6840 Series

6U CompactPCI® Highly Integrated Intel® Pentium® M Processor PCI™ 64-bit/66 MHz Universal Blade



## Features

- Low power Intel® Pentium® M/Celeron® M processors
- Universal operation on either system or peripheral slots
- 64-bit/66 MHz CompactPCI® bus, compliant PICMG® 2.1, 2.9 and 2.16
- Up to 2 GB DDR-333 SDRAM
- Three Gigabit Ethernet ports
- Multiple storage options: IDE, Serial ATA, CompactFlash® and SCSI
- Display Interfaces: CRT, DVI, and LVDS

## Specifications

### Processor System

CPU	µFC-PGA Intel® Pentium® M / Celeron® M processors: Pentium® M 1.6 GHz, 400 MHz FSB, 1 MB L2 cache Pentium® M 1.8 GHz, 400 MHz FSB, 2 MB L2 cache Celeron® M 1.3 GHz, 400 MHz FSB, 512 KB L2 cache
Chipset	Intel® 855GME with 6300ESB I/O Controller Hub
RAM	Two 200-pin SODIMM sockets, up to 2 GB DDR-333 SDRAM
BIOS	Award® 4 Mb flash memory
CompactPCI Bus	64-bit/66 MHz CompactPCI® bus Operation in system slot and peripheral slot with CompactPCI bus communication
PICMG standard	PICMG® 2.0 CompactPCI R3.0 PICMG® 2.1 Hot Swap R2.0 PICMG® 2.3 PMC R1.0 PICMG® 2.9 System Management R1.0 (v1.5) PICMG® 2.16 R1.0

### Connectivity

PMC/XMC	Maximum up to two PCI™ 64-bit/66 MHz slots Upper PMC2 slot provides J24 rear I/O connection
Ethernet	Intel® 82546GB Dual-Port Gigabit Ethernet Controller for two PICMG® 2.16/RTM GbE ports Intel® 82541PI Single-Port Gigabit Ethernet Controller for front panel GbE port
Graphics	Intel® 855GME Integrated Graphics with 32 MB UMA
USB	Two ports on front panel, two ports on RTM
PS/2	One PS/2 Keyboard Mouse port on panel of cPCI-6840V and cPCI-R6841
Serial Port	Two RJ-45 16C550 compatible RS-232 ports on front and rear panel

### Storage

SBC	44-pin IDE connector on Ultra ATA100 primary IDE channel for 2.5" HDD direct mounting
RTM	Ultra ATA100 secondary IDE channel is routed to RTM for 40-pin IDE connector and CompactFlash slot

### Operating System

OS	Microsoft® Windows® 2000/XP Windows® Server® 2003 Windows® XP Embedded VxWorks® 5.5.1
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### Miscellaneous

LED	Four LEDs on the front panel including Storage Access LED (red), Power LED (green), Hot-Swap status (blue), and Watchdog timer LED (yellow)
Battery	Coin cell lithium battery onboard for RTC CMOS RAM for BIOS configuration
Hardware Monitor	Monitoring of CPU temperature, fan speed, system temperature, Vcore and DC voltages
Watchdog Timer	Two stage, SMI/SCI before RESET

### Mechanical & Environmental

Form Factor	6U 4HP CompactPCI® 233.33 mm x 160 mm (L x W)
Operating Temp.	0°C to 55°C (external air-flow required)
Storage Temp.	-20°C to 80°C
Rel. Humidity	90% non-condensing
Shock	15 G peak-to-peak, 11 ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis Operation: 0.5 Grms, 5-500 Hz, each axis
Power Consumption	8.8 A at +5 V, 4.0 A at +3.3 V, 0.2 A at +12 V (1.6 GHz CPU, 512 MB DDR-333, HDD, USB, K/B, Mouse attached)

### Safety & EMI

Certifications	CE, FCC Class A
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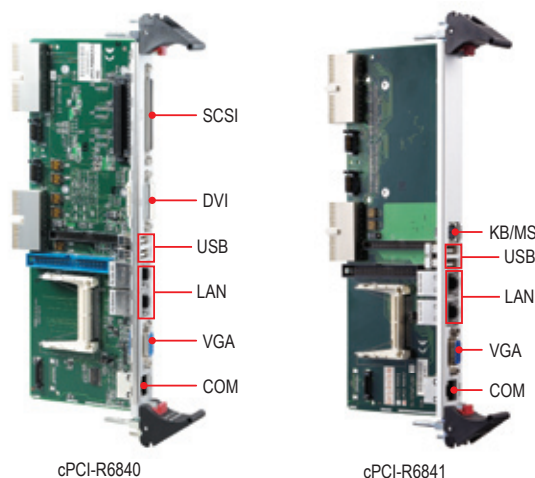
## I/O Table

Function	cPCI-6840		cPCI-6840V		cPCI	cPCI-R6840		cPCI-R6841(P)	
	Onboard	Face-plate	Onboard	Face-plate	J3/J5	Onboard	Face-plate	Onboard	Face-plate
COM1		RJ-45		RJ-45					
COM2					J3	RJ-45		RJ-45	
USB (port 0, port 1)		Y		Y					
USB (port 2, port 3)					J5	Y		Y	
GbE port1	2.16		2.16		J3	RJ-45		RJ-45	
GbE port2	2.16		2.16		J3	RJ-45		RJ-45	
GbE port3		RJ-45		RJ-45					
Primary IDE	44-pin		44-pin						
Secondary IDE					J5		40-pin, CF		40-pin, CF
General Purpose LED		Y		Y					
Reset button		Y		Y					
PMC1 (lower)	Y								
PMC2 (upper)	Y		Y		J5			PIM (cPCI-R6841P only)	
SATA					J5		Y		Y
PS/2 KB / MS				Y	J3			Y	
VGA				DB-15	J3	DB-15		DB-15	
DVI					J3	DVI			
LVDS					J3		Y		Y
2.5" HDD	Mountable on PMC2		Mountable on PMC2						Mountable

## Ordering Information

Model Number	Description/Configuration
<b>CPU Board</b>	
cPCI-6840/P18/M1G	6U cPCI Pentium® M 1.8 GHz universal blade, with 1 GB DDR and two PMC
cPCI-6840V/P18/M1G	6U cPCI Pentium® M 1.8 GHz universal blade, with VGA, KB/MS, 1 GB DDR, and one PMC
<b>Rear Transition Module</b>	
cPCI-R6840	6U cPCI RTM with DVI, SCSI, LVDS, Dual-GbE, VGA, USB, SATA, CF, COM, and IDE connectors for cPCI-6840(V)
cPCI-R6841	6U cPCI RTM with LVDS, Dual GbE, VGA, USB, SATA, CF, COM, and IDE for cPCI-6840(V) (without PIM)
cPCI-R6841P	6U cPCI RTM with PIM, LVDS, Dual GbE, VGA, USB, SATA,CF,COM and IDE for cPCI-6840(V)
<b>Mezzanine</b>	
DB-6840CF	CompactFlash® Daughter Board for cPCI-6840 series

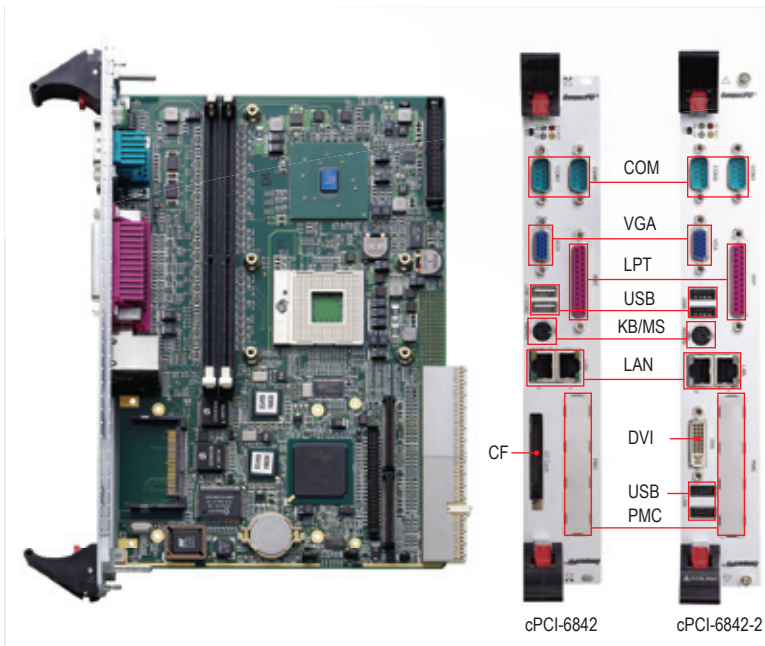
Contact your ADLINK representative for different CPU, memory combinations.



# cPCI-6842 Series

6U CompactPCI® Dual-Slot Intel® Pentium® M Processor Host SBC

6U cPCI SBC



## Features

- Standard 6U form factor with 2-slot (8HP) space
- Supports Intel® Pentium® M and Celeron® M processors
- Up to 2 GB DDR 333 ECC non-registered memory module
- 32-bit/33 MHz CompactPCI® bus
- Dual-10/100/1000Mbps Ethernet ports
- Supports Intel® Pre-boot Execution Environment (PXE) for remote boot

## Specifications

### Processor System

CPU	µFC-PGA Intel® Pentium® M / Celeron® M processors Pentium® M 1.6 GHz, 400 MHz FSB, 1 MB L2 cache Pentium® M 1.8 GHz, 400 MHz FSB, 2 MB L2 cache Celeron® M 1.3 GHz, 400 MHz FSB, 512 KB L2 cache
Chipset	Intel® 855GME with ICH4
RAM	Two 184-Pin DIMM sockets, up to 2 GB non-registered ECC DDR-333 memory
BIOS	Award® 4 Mb flash memory
CompactPCI Bus	Ti-2050 32-bit/33 MHz PCI™ to PCI-bus bridge
PICMG standard	PICMG® 2.0 R3.0

### Connectivity

PMC/XMC	Supports one PMC slot, 32-bit/33 MHz
Ethernet	Dual Gigabit Ethernet ports via Intel® 82541 on front panel
Graphics	Integrated in Intel® 855GME One Analog VGA port on front panel One digital DVI port on front panel (cPCI-6842-2 only)
USB	cPCI-6842: USB 2.0, two ports on front panel cPCI-6842-2: USB 2.0, four ports on front panel
PS/2	One PS/2 KB/MS combo port
Serial Port	Two DB-9 COM ports
Printer Port	One front panel printer port
Floppy	Onboard pin-header

### Storage

SBC	44-pin IDE connector for 2.5" ATA HDD housing Hotswappable CompactFlash slot on front panel (cPCI-6842 only)
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### Operating System

OS	Microsoft® Windows® 2000 Microsoft® Windows® XP Microsoft® NT4.0 Server Microsoft® Server 2003 Microsoft® Windows® XP embedded Red Hat® Linux® 9.0 Fedora™ Core 3
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### Miscellaneous

LED	Power, HDD, WDT, General Purpose
Battery	Coin cell Lithium Battery onboard for RTC CMOS RAM for BIOS configuration
Hardware Monitor	Monitoring of CPU temperature, system temperature, Vcore and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable, generates system reset

### Mechanical & Environmental

Form Factor	6U 8HP (dual-slot) CompactPCI® 233.33 mm x 160 mm (L x W)
Operating Temp.	0°C to 50°C
Storage Temp.	-20°C to 80°C
Rel. Humidity	90%, non-condensing
Shock	15G peak-to-peak, 11 ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis Operation: 0.5 Grms, 5-500 Hz, each axis

### Safety & EMI

Certifications	CE, FCC Class A
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## I/O Table

Function	cPCI-6842		cPCI-6842-2	
	Face-plate	Onboard	Face-plate	Onboard
COM 1/2	Y (DB-9)		Y (DB-9)	
VGA	Y (DB-15)		Y (DB-15)	
LPT	Y (DB-25)		Y (DB-25)	
PS/2 KB/MS	Y (Combo)		Y (Combo)	
USB 2.0	Y x2		Y x4	
LAN x 2	Y (RJ-45)		Y (RJ-45)	
CF	Y (Hot Swappable)			
DVI			Y	
PMC	Y	Y (32-bit/33 MHz)	Y	Y (32-bit/33 MHz)
IDE1		Y (44-pin)		Y (44-pin)
FDD		Y (33-pin)		Y (33-pin)
LEDs	Y		Y	
Reset Button	Y		Y	

## Ordering Information

Model Number	Description/Configuration
<b>CPU Board</b> cPCI-6842	6U dual-slot Pentium® M cPCI host SBC with VGA, dual-GbE, LPT, dual-COM, dual-USB, CF, PMC, PS/2 KB/MS (w/o CPU & RAM)
cPCI-6842-2	6U dual-slot Pentium® M cPCI host SBC with VGA, dual-GbE, LPT, dual-COM, quad-USB, DVI, PMC, PS/2 KB/MS (w/o CPU & RAM)
cPCI-6842/PM16/M512/H40G	6U dual-slot Pentium® M 1.6 GHz cPCI host SBC with 512 MB DDR & 40 GB HDD

Contact your ADLINK representative for different CPU, memory combinations.