cPCI-6600 Series

6U CompactPCI® Intel® Pentium® M Processor SBC



Features

- *Intel® Pentium® M or Celeron® M processor, up to 2.0 GHz*
- *Intel® 915GME and ICH6-M chipset*
- *Dual-Channel DDR2 533 MHz, up to 512 MB soldered and 2 GB SODIMM module*
- *Up to three PCI-Express® 10/100/1000 Ethernet ports, two for PICMG® 2.16*
- *Up to six USB2.0 ports*
- *SATA, CF, and Floppy storage*
- *Analog CRT support up to 2048 x 1536 resolution*

Peripheral Connectivity

Function	cPCI-6600A		cPCI-6600B		cPCI-R6600	
	Face-plate	On-Board	Face-plate	On-Board	Face-plate	On-Board
GbE	Y x 2	--	Y x 2	--	Y x 2(1)	--
USB 2.0	Y x 2	--	Y x 4	--	Y x 2	--
VGA	Y	--	Y	--	--	--
RS/232	Y	--	--	--	Y	--
PS/2 KB/MS	--	--	Y	--	--	--
CompactFlash®	--	Y	--	Y	--	Y
SATA150	--	--	--	Y	--	Y x 2 (7-pin)
PMC	Y	--	Y	--	--	--
FDD	--	--	--	--	--	Y
LPT	--	--	--	--	Y	--
Status LED	Y x 4	--	Y x 4	--	--	--
GP LED	Y x 8	--	Y x 8	--	--	--
Reset Button	Y	--	Y	--	--	--

Note 1: One port is selected from front GbE by switch. Two ports are shared with 2.16 PSB.

Ordering Information

cPCI-6600A/C10/512	Single slot 6U Celeron® M 1.0 GHz cPCI host SBC with 512 MB soldered DDR2 SDRAM, one PMC slot, GbEx2, USBx2, and RS232
cPCI-6600B/P18/512	Dual-slot 6U Pentium® M 1.8 GHz cPCI host SBC with 512 MB soldered DDR2 SDRAM, one PMC slot, GbEx2, USBx4, RS232, PS/2, and SATA
cPCI-6600B/P20/512	Dual-slot 6U Pentium® M 2.0 GHz cPCI host SBC with 512 MB soldered DDR2 SDRAM, and one PMC slot , GbEx2, USBx4, RS232, PS/2, and SATA
cPCI-R6600	Rear Transition Module for cPCI-6600 with GbEx2, USBx2, RS232, CF, LPT/FDD, and SATAx2

Note : All modules optional, soldered, or socket memory

Specifications

CPU / Chipset / RAM

CPU	µFC-BGA Intel® Pentium® M 2.0 GHz, FSB 533 MHz, 2 MB L2 cache, TDP 27 W (Dual-slot only)
	µFC-BGA Intel® Pentium® M 1.8 GHz, FSB 400 MHz, 2 MB L2 cache, TDP 21 W (Dual-slot only)
	µFC-BGA Intel® Pentium® M 1.4 GHz LV, FSB 400 MHz, 1 MB L2 cache, TDP 10 W
	µFC-BGA Intel® Celerom® M Proc 1.0 GHz ULV, FSB 400 MHz, 512 KB L2, TDP 5.5 W
Chipset	Intel® 915 GME Graphic Memory Controller Hub
	Intel® I/O Controller Hub 6 Mobile (ICH6-M)
RAM	Channel A: SO-DIMM socket for DDR2 SDRAM, up to 2 GB
	Channel B: Soldered DDR2 memory 512 MB
	Both channels non-ECC, un-buffered, 400/533 MHz DDR2 and maximum up to 2 GB

Bus

CompactPCI® Standards	PICMG® 2.0 R3.0, PICMG® 2.1 R2.0, PICMG® 2.9 R1.0 (v1.5), PICMG® 2.16 R1.0
CompactPCI® Bus	TI PCI2050 PCI™-to-PCI™ Bridge 32-bit/33 MHz
PMC Slot	Optional one PCI™ 64-bit/66 MHz PMC slot

BIOS

Chip	Chip Award-Phoenix® BIOS in 4 Mb FWH
Features	Supports PXE Remote Boot
	Supports boot from any boot device
	Serial Console

I/O Interfaces

Display	Integrated in Intel® 915 GME
	Analog CRT supports up to 2048 x 1536 resolution
Ethernet	One 10/100/1000 Ethernet port in front panel via Yukon®-EC 88E8050 PCI Express® controller
	One 10/100/1000 Ethernet port in the front panel or rear panel via Intel® 82573 PCI Express® Controller by switch selection, shared with PICMG® 2.16 PSB
	One 10/100/1000 Ethernet port in the rear panel via Intel® 82573 PCI Express® Controller, shared with PICMG® 2.16 PSB
CF	One CF socket on board
USB	Four USB 2.0 ports on the front panel, and the other two USB 2.0 ports on the rear panel
Serial ATA	Three Serial ATA channels:
	One is on the 2nd layer PCB (cPCI-6600B)
	Two channels are routed to RTM, two 7-pin device plug connectors on board
Serial Port	One RS-232 Serial port on the front panel, the other RS-232 serial port on the rear panel
KB/MS	One PS/2 KB/MS Combo Port
Floppy	One floppy port on board of RTM
Print	One printer port on the face-plate of RTM

Other Features

LED	Media Access LEDs: Power, WDT, Hot Swap, HDD
	Port 80 display LEDs (x8)
Hardware Monitoring	Integrated in ITE8712, monitoring CPU temperature, system temperature, Vcore and DC voltages
Operating System temperature	Windows® XP, Windows® Server® 2003, Windows® Vista® 32-bit, Fedora® Core 7.0

Mechanical and Environmental

Form Factor	6U CompactPCI®
Dimensions	cPCI-6600A: 233.33 mm x 160 mm (L x W), one slot (4 HP) width
	cPCI-6600B: 233.33 mm x 160 mm (L x W), two slot (8 HP) width
Operating Temp.	0˚C to 60˚C standard with external air flow
	Contact ADLINK for extended temperature version
Storage Temp.	-40˚C to 80˚C
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 Measurement	Full load 34 W (1.4 A at +3.3 V, 6.7 A at +5 V); Idle 27 W (1.3 A at +3.3 V, 4.5 A at +5 V) with Pentium® M 1.8 GHz, 512 MB soldered memory, 40 GB SATA HDD running under Windows® XP
Certificate or Test	CE, FCC class A

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000