cPCI-6780 Series

6U CompactPCI Single Intel® Pentium® III Processor (1.26GHz) Host SBC



Features

- *Standard 6U form factor, 2-slot (8TE/HP) width*
- *Supports up to Socket 370-based Intel® Pentium® III processor (1.26GHz) with 512K L2 cache*
- *Three 168-pin DIMM sockets support up to 512MB un-buffered SDRAM*
- *Built-in housing for 2.5" low profile HDD*
- *Supports up to 4 USB ports, 4 serial ports, 2 parallel ports*
- *Supports 7 bus-master PCI devices on CompactPCI bus*
- *cPCI-6780V&VS built-in AGP 2 x VGA display by Intel® 815E chipset*
- *cPCI-6780VS built-in Ultra-2 Wide SCSI by LSI SYM53C895 controller*

Ordering Information

cPCI-6780VS	6U cPCI High Performance FSB133 All-in-one CPU module with on-chip AGP-VGA display and SCSI
cPCI-R6780S	Rear I/O Transition Module for cPCI-6780VS

Note 1: Front CPU modules and rear I/O transition modules are sold separately.
Note 2: All front boards come with special designed copper heat-pipe heat-sink and DB-44CFH CF transition daughter board.
Note 3: CPU, RAM, and HDD are not included. Please contact us for more CPU/RAM/HDD integrated options.

Specifications

CPU / Chipset / RAM

CPU	Socket 370-based Intel® Pentium® III processor (FC-PGA2) up to 1.26GHz with 512K on-die L2 cache
	Socket 370-based Intel® Pentium® III processor (FC-PGA) up to 1.0GHz with 256K on-die L2 cache
	Socket 370-based Intel® Celeron® processor (FC-PGA) up to 1.0GHz with 128K on-die L2 cache
FSB	100/133MHz for Pentium® III, 66/100MHz for Celeron
Chipset	Intel® 815E with ICH2
RAM	Three 168-pin DIMM sockets, up to 512MB un-buffered SDRAM

Bus

Standards	PICMG 2.0 R3.0, PICMG 2.1 Hot Swap R2.0
CompactPCI Bus	32-bit/33MHz, TI PCI2050 PCI to PCI bridge

BIOS

Chip	Award 2Mb flash memory
Features	Intel® PXE pre-boot on Ethernet
	Remote Console

I/O Interfaces

Display	cPCI-6780V or VS: Built-in Intel® 815E
Ethernet	Triple 10/100Mbps Ethernet ports with RJ-45 connector: 2 ports on front panel by Intel 82559, 1 port on rear panel by Intel 82562 with 815E ICH2 built-in MAC
IDE	ATA-100, dual channels, built-in 2.5" ATA HDD housing on front board
Floppy	Standard 34-pin connector on RTM
SCSI	LSI 53C895, Ultra-2-Wide SCSI with LVD (cPCI-6780 VS)
USB	USB 1.1, four ports (2 for front, 2 for rear)
Front Panel I/Os	PS2 KB, PS2 MS, VGA, LAN1, LAN2, USB x 2, LPT1, COM1, COM2 (RS-232)
Backplane I/Os (rear I/O)	J2: LCD, J3: KB, MS, COM3, COM4, LPT2, FDD, IDE1, Buzzer, J4: SCSI, J5: VGA, LAN3 (MII), USB x 2, IDE2, AC-97 (model dependant)

Other Features

Hardware Monitoring	Monitoring CPU temperature, FAN speed, system temperature, Vcore and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable, can generate system reset.
Operating System Compatibility	Microsoft® Windows 98/ NT4.0/ 2000 (Other OS please contact ADLINK for availability)

Mechanical and Environmental

Form Factor	6U CompactPCI
Dimensions	233mm x 160mm (L x W), 2 slots (8HP) wide
Operating Temp.	0 to 60˚C (inside-chassis temp, CPU type dependant, external air-flow required)
Storage Temp.	-20 to 80˚C
Shock	15G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.88Grms, 5-500Hz, each axis
	Operation: 0.5Grms, 5-500Hz, each axis, with 2.5" HDD
Measured Power Consumption	5.88A @ +5V, 3.76A @ +3.3V, 270mA @ +12V, 120mA @ -12V, installed with Pentium® III 1GHz CPU and 512MB RAM, without HDD
Compliance	CE, FCC Class A

Rear I/O Transition Modules

Model Number	Faceplate I/O	On-board I/O
cPCI-R6780V (for cPCI-6780V)	COM3 (RS-232), COM4 (RS-232/422/485), LPT2, KB, MS, USB x 2, VGA, LAN3	FDD (34-pin), IDE1 & IDE2 (40-pin), Buzzer (2-pin)
cPCI-R6780S (for cPCI-6780VS)	COM3 (RS-232), COM4 (RS-232/422/485), LPT2, KB, MS, USB x 2, VGA, LAN3, SCSI	FDD (34-pin), IDE1 & IDE2 (40-pin), Buzzer (2-pin), SCSI, LC

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