cPCI-6811AA

6U CompactPCI Pentium® III Low Voltage Processors, 64-bit/66MHz Full Control Hot-swappable Universal SBC



cPCI-6811AA



cPCI-R6820

ADLINK's cPCI-6811AA extends full control hot-swap, performance, functionality, and features for 6U cPCI single slot processor board. It features single mobile Pentium III with dual PMC slot. The ServerWorks LE-III chipset provides support for up to 2GB of SODIMM SDRAM with 32/64-bit, 33/66MHz PCI bus. PICMG 2.16 packet switching backplane and PICMG 2.9 system management capabilities make cPCI-6811AA as the best solution for high-density and high-computing blade server, telecommunication computers, multi-computing platforms, and mission-critical applications.

Features

- ***Single slot 6U CompactPCI***
  - ***Universal 64-bit/66MHz CompactPCI bus, full control hot-swappable***
- ***Highest Performance, Fan-less***
  - ***Single Intel LV Tualatin***
- ***Server-Grade System Memory***
  - ***ECC & Reg system memory, up to 2GB***
- ***High Flexibility for Field Applications***
  - ***Provide two PMC sockets***
  - ***On-board HDD drive bay***
- ***Advanced PICMG Standard***
  - ***Support PICMG 2.16 cPSB, Dual GbE ports provide scalable network throughput***
  - ***Support PICMG 2.9 IPMI interface***

Ordering Information

cPCI-6811AA/P9/M1G	PICMG 2.16 & 2.9 6U cPCI Single Slot 64-bit/66MHz Universal SBC, Pentium III-933 with 2 SO-DIMM, Dual GbE, 2 PMC with 512MB SO-DIMM x 2
cPCI-6811AA/P10/M1G	PICMG 2.16 & 2.9 6U cPCI Single Slot 64-bit/66MHz Universal SBC, Pentium III-1GHz with 2 SO-DIMM, Dual GbE, 2 PMC with 512MB SO-DIMM x 2

Note 1: Front CPU modules and rear I/O transition modules are sold separately
Note 2: CPU is soldered, HDD is not included

Specifications

CPU / Chipset / RAM

CPU	Single Intel uFCBGA LV Pentium-III (Tualatin) up to 1GHz with 512K on-die L2 cache
FSB	133MHz
Chipset	ServerWorks LE-III
RAM	PC-133 Registered ECC SDRAM Up to four 144-pin SO-DIMM sockets, up To 2GB Reg.

Bus

CompactPCI Standards	PICMG 2.0 R3.0, PICMG 2.1 R2.0, PICMG 2.9 R1.0, PICMG 2.16 R1.0 Standard PICMG 2.9 System Management with IPMI V1.0 (Full control Hotswap)
CompactPCI Bus	HiNT HB6 Universal PCI to PCI bridge 64-bit/66MHz, support 4 bus-mastering devices 32-bit/33MHz, support 7 bus-mastering devices

BIOS

Chip	Award 4Mb flash memory
Features	Intel PXE pre-boot on Ethernet
	Serial Console

I/O Interfaces

Ethernet	10/100/1000Mbps Ethernet by Intel 82546EB: dual ports for rear I/O or PICMG 2.16
IDE	ATA-100, dual channels, built-in 2.5" ATA HDD housing on both front board and RTM
USB	USB 1.1, 4 ports (2 for front, 2 for rear faceplate)
Front Panel I/Os	cPCI-6811: COM1 (RS-232), USB, PMC x 2
Backplane I/O (rear I/O)	J3: PMC rear I/O, LAN1 & 2 (PICMG 2.16) J5: IDE1, IDE2, USB x 4, KB, MS, Buzzer

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Mechanical and Environmental

Form Factor	6U CompactPCI
Dimensions	233.33mm x 160mm (L x W), 1 slot1 (4HP) wide
Operating Temp.	0 to 55˚C (inside-chassis temp; 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	Single Mobile Tualatin Pentium III-933 & 1GB RAM: 1.8A @ +5V, 3.9A @ +3.3V, 46mA @ +12V (w/o HDD)
Certificate or Test	CE, FCC class B

Other Features

Watchdog Timer	1-255 sec or 1-255 min software programmable, can generate system reset.

Accessories

Flash Storage	Flash2000 2.5" flash drive
RTM	cPCI-R6820

Model Variant and Configuration

Model Number	Mobile Tualatin/ Pentium III CPU	SO-DIMM Socket	PMC Slot	HDD Space	VGA	KB/MS
cPCI-6811AA/P9/M1G	Single 933MHz	2	2	Yes, Occupy 1 PMC	N/A	Rear
cPCI-6811AA/P10/M1G	Single 1GHz	2	2	Yes, Occupy 1 PMC	N/A	Rear

Rear I/O Transition Modules

Model number	Faceplate I/O	On-board I/O
cPCI-R6820	KB & MS (combo), USB x 2, VGA, LAN1 & 2	IDE1 (40-pin), IDE2 (44 & 40-pin), CF socket, Buzzer

Peripheral Connectivity

I/O	cPCI-6811AA			RTM (cPCI-R6820)	
	Faceplate	Board	J3/J5	Faceplate	Board
Serial Port (COM1)	RJ-45	--	J5		10-pin Header
Serial Port (COM2)	--	--	J5	RJ-45	
PS2 Keyboard	--	--	J5	PS2 Combo	--
PS2 Mouse	--	--	J5	PS2 Combo	--
VGA	--	--	J5	DB-15	--
USB (port 0, port 1)	USB x 2	--	J5	--	--
USB (port 2, port 3)	--	--	J5	USB x 2	--
Gigabit Ethernet Port 1	--	2.16	J3	RJ-45	--
Gigabit Ethernet Port 2	--	2.16	J3	RJ-45	--
ATA-100 Primary IDE	--	44-pin	J5	44-pin	40-pin
ATA-100 Secondary IDE	--	--	J5	--	40-pin CF-type 2
PC Beeper	--	Y	J5	--	4-pin Header
General Purpose LED	Y	--	--	--	--
Reset button	Y	--	--	----	
PMC #1	--	Y	J3	--	--
PMC #2	--	Y	--	--	--

Note: Not support for VGA.

All specifications are subject to change without further notice.

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