cPCI-SBC01

AMD Geode Processor Single Board Computer

INTRODUCTION

The cPCI-SBC01 is the low cost Single Board Computer(SBC) which equipped a processor (AMD Geode LX800) of low power and heat. This product provides a suitable solution in an embedded market wanting low power and small size.

FEATURES

- ◆ AMD Geode LX800 500MHz processor
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- ◆ VGA, (option) TFT LCD video output
- ◆ Single power(+9V to 15V) operation
- ◆ 3U, 1 slot wide

APPLICATION

- ◆ Home Network
- ◆ Control Equipment
- ◆ Factory automation
- ◆ Data acquisition
- ◆ Medical and robotics
- ◆ Auto PC UMPC (Ultra Mobile PC)
- ◆ Instrument control
- ◆ PC Music player

SOFTWARE

▣ **Operating system**

- ▪ Windows 2000/XP

▣ **BIOS**

- ▪ Insyde or General BIOS

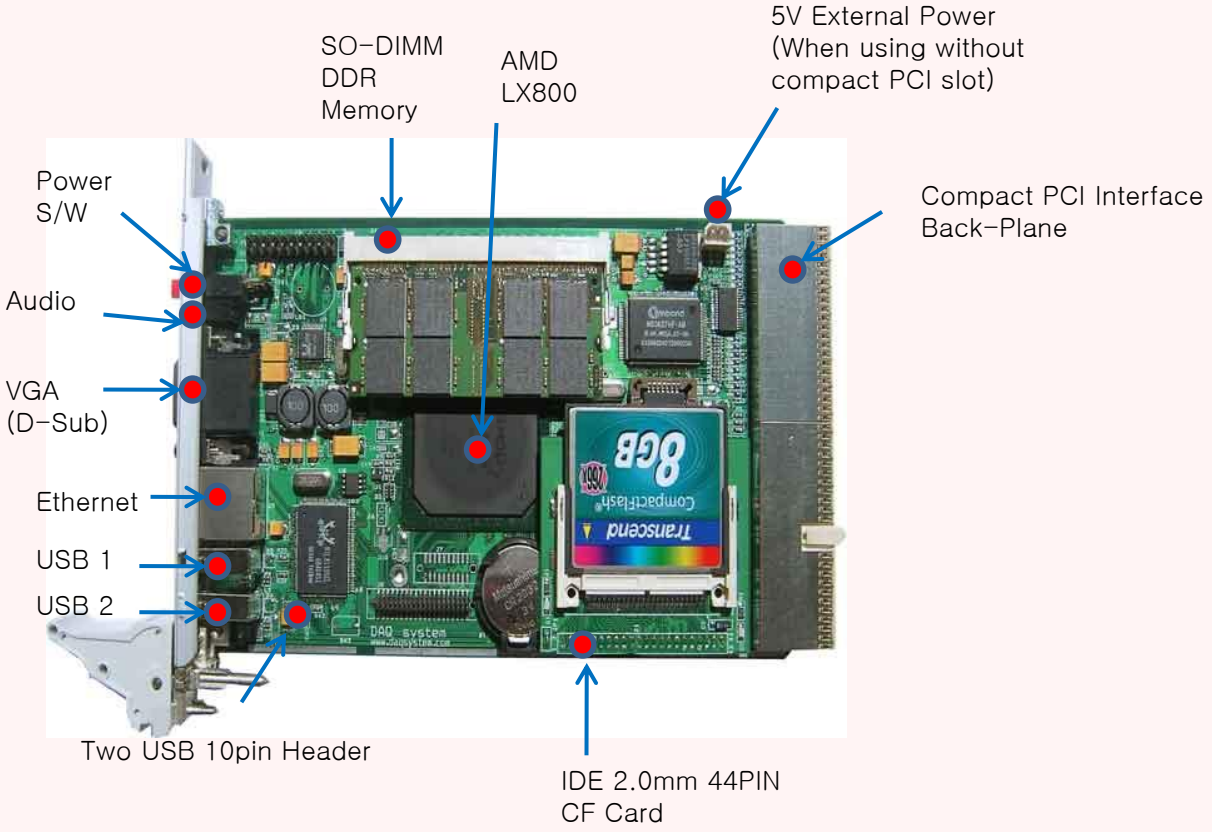
PHYSICAL DIMENSION

- ▪ 3U, 1 slot wide(160 x 100 x 30mm)
- ▪ Front I/O : Power switch, D-sub video connector, 2xUSB, Ethernet, 2xStatus LED, audio
- ▪ Rear(transition) Board : 2xUSB, 2xPS2, RS232, 1xFDD, 1xLPT
- ▪ On-Board : IDE, LCD output

H/W SPECIFICATIONS

Form Factor	Compact PCI 3U 4HP size
Processor type	AMD Geode LX800 500MHz processor
System Chipset	Intel System Controller Hub US15WPT
Bios	Insyde or General BIOS
Memory	256MB, up to 1GB DDR SODIMM SDRAM
Extension Slot	Compact PCI System Interface
Compact Flash slots	44pin IDE to Compact Flash type-2 adaptor
Display	Max1920x1440 VGA output, (option)TFT LCD video output
Ethernet	one 10/100/1000 Mbps Ethernet port
EIDE	2mm pitch 44pin EIDE connector , 20Gbyte 1.8inch IDE HDD
Audio	HD Codec audio with mono speaker AMP
Serial I/O	(option) Two serial ports , one can be used as touch input
Parallel Port	(option) 1 Parallel
USB	Two USB A connector, Two with 10pin header, Four rear transition board
Status LEDS	Indication for Ready and operation
Power Input	Single +5 power, max current is 1.5A from Compact PCI Back-plane or Single +9 to + 15V range power max current is 1.5A(Stand Alone)
Operating Temperature	-40 to 50(without FAN and Heat-sink), -40 to +85 (with Heat-sink)
Power Consumption	Max 15W
Software	Windows 2000/XP
I/O option	2xCOM, 2xUSB, 1xParallel, 2xPS2

Front, Rear and On-board I/O

Function	Front I/O	On-board I/O	Rear I/O
Ethernet	RJ-45		
USB0	USB		
USB1	USB		
USB2(option)			yes
USB3(option)			yes
VGA	Dsub-15		
LCD output(option)		yes	
IDE		yes	
Parallel(option)			yes
PS2(option)			yes
PS2(option)			yes
Audio			
Reset switch	Button		
LED	Yes		
Keyboard/mouse	via USB or PS2		via USB or PS2

Configuration Map