

# SBC-596/599

Pentium MMX, K6 Full-size CPU Card with LCD,  
Ethernet, SCSI & High Drive

SBC-599/596

Quick Installation Guide

## Notice:

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This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to the electronic user's manual.

## Safety Precautions

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### Warning!



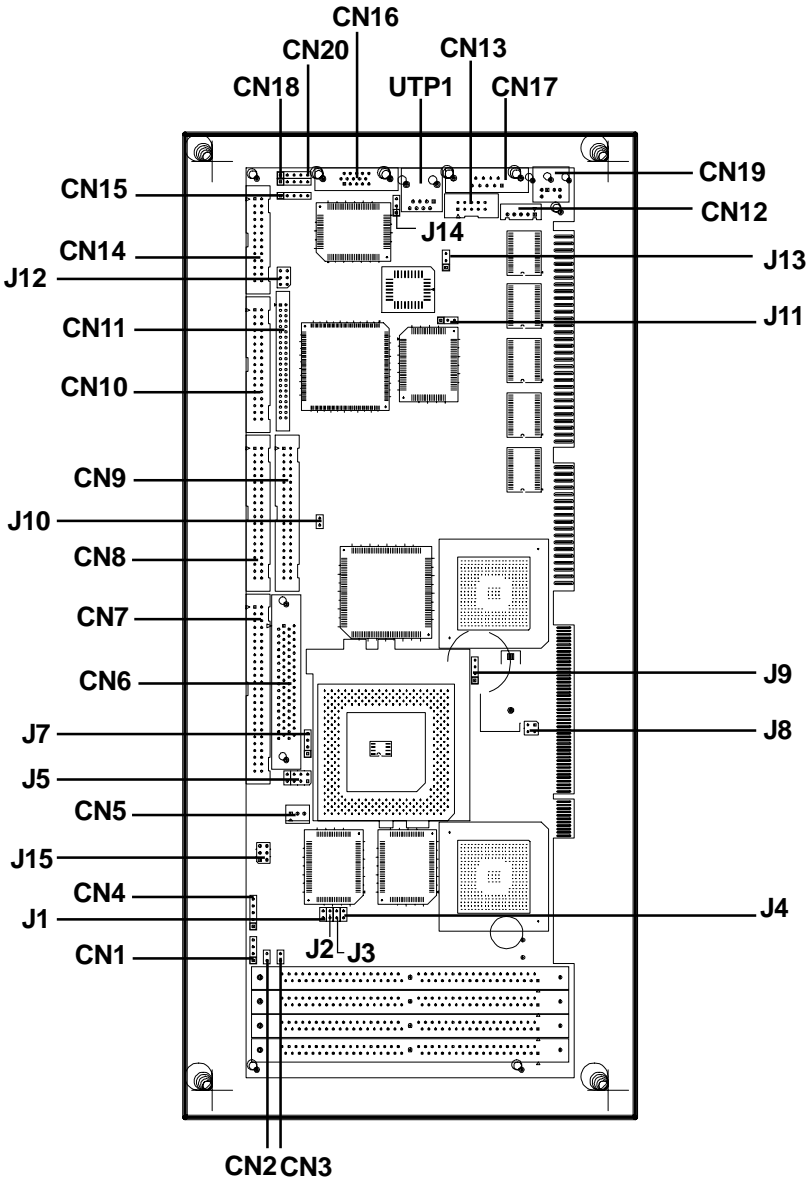
*Always disconnect the power cord from your chassis when you are working on it. Do not make connections while the power is on as sensitive electronic components can be damaged by the sudden rush of power. Only experienced electronics personnel should open the PC chassis.*

### Caution!



*Always ground yourself to remove any static charge before touching the PC board. Modern electronic devices are very sensitive to static electric charges. Use a grounding wrist strap at all times. Place all electronic components on a static-dissipative surface or in a static-shielded bag when they are not in the chassis.*

## Locating jumpers and connectors



# Quick Installation Guide

## Connectors

Connectors	
Label	Function
CN1	Speaker CON.
CN2	HDD LED CON.
CN3	Reset switch
CN4	Power LED/keyboard Lock CON.
CN5	Fan Power CON.
CN6	Wide SCSI CON. (SBC-599 only)
CN7	SCSI CON. (SBC-599 only)
CN8	Primary IDE CON.
CN9	Secondary IDE CON.
CN10	Floppy CON.
CN11	Flat Panel CON.
CN12	EXT Keyboard CON.
CN13	COM2
CN14	Printer Port CON.
CN15	IR CON.
CN16	CRT CON. (SBC-599 only)
CN17	COM1
CN18	USB2
CN19	PS/2 Mouse & Keyboard CON.
CN20	USB1
UTP1	Ethernet CON. (SBC-599 only)

## Jumpers

Jumpers	
Label	Function
J1	Voltage Select
J2	Voltage Select
J3	Voltage Select
J4	Voltage Select
J5	Frequency Ratio
J7	MTXC CLK Setting/P55C Enabled
J8	Clock Setting
J9	Battery Select and Clear CMOS
J10	SCSI Select
J11	ISA Timing
J12	LCD Power Select
J13	LCD/EL Select
J14	Watchdog Select
J15	Dual Power Select

### Voltage Select (J1, J2, J3, and J4)

V	2	2.1	2.2	2.4	2.5	2.6	2.7	2.8*	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
J1	open	close	open	close	open	close	open	close	open	close	open	close	open	close	open	close
J2	open	open	close	close	open	open	close	close	open	open	close	close	open	open	close	close
J3	open	open	open	open	close	close	close	close	open	open	open	open	close	close	close	close
J4	open	open	open	open	open	open	open	open	close	close	close	close	close	close	close	close

\* default setting

# Quick Installation Guide

## Frequency Ratio (J5)

J5 Frequency Ratio**				
F.R.	1.5***	2	2.5*	3
J5				
	<p>5 6</p> <p>○ ○</p> <hr/> <p>○ ○</p> <p>3 4</p>	<p>5 6</p> <p>○ ○</p> <hr/> <p>○ ○</p> <p>3 4</p>	<p>5 6</p> <p>○ ○</p> <hr/> <p>○ ○</p> <p>3 4</p>	<p>5 6</p> <p>○ ○</p> <hr/> <p>○ ○</p> <p>3 4</p>

\* Default setting

\*\* Jumper settings for pins 1 and 2 do not affect this setting

\*\*\* For Intel 233 MHz MMX CPUs, F.R. is 3.5 for this setting



J5 Frequency Ratio for K6 only				
F.R.	2	2.5	3	3.5
J5				
	<p>5 6</p> <p>○ ○</p> <hr/> <p>3 4</p> <p>1 2</p>	<p>5 6</p> <p>○ ○</p> <hr/> <p>3 4</p> <p>1 2</p>	<p>5 6</p> <p>○ ○</p> <hr/> <p>3 4</p> <p>1 2</p>	<p>5 6</p> <p>○ ○</p> <hr/> <p>3 4</p> <p>1 2</p>
F.R.				
	<p>5 6</p> <p>○ ○</p> <hr/> <p>3 4</p> <p>1 2</p>	<p>5 6</p> <p>○ ○</p> <hr/> <p>3 4</p> <p>1 2</p>	<p>5 6</p> <p>○ ○</p> <hr/> <p>3 4</p> <p>1 2</p>	<p>5 6</p> <p>○ ○</p> <hr/> <p>3 4</p> <p>1 2</p>

Please refer to the following table for CPU internal frequency (MHz) settings (for reference only).



CPU Internal Frequency	100	120	133	150	166	200	233	266	300	333	366
F.R.	1.5	2	2	2.5	2.5	3	3.5	4	4.5	5	5.5
Clock	66	60	66	60	66	66	66	66	66	66	66

## MTXC CLK Setting/P55C Enabled (J7)

### J7 MTXC CLK Setting

	66 Hz*	60 Hz
J7		
	3 4	3 4





### J7 P55C Enabled/Disabled

	Enabled*	Disabled
J7		
	1 2	1 2

\* default setting

## Clock Setting (J8)



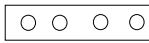
### J8 Clock Setting

	55	60	66*	75
CPU	55	60	66*	75
PCI	27.5	30	33.3	37.5
J8				

\* default setting

## Battery Select and Clear CMOS (J9)

### J9 Battery Select and Clear CMOS (J9)

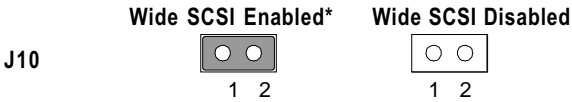
	Internal Battery*	External Battery	Clear CMOS
J9			
	1 2 3 4	1 2 3 4	1 2 3 4

\* default setting

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## SCSI Select (J10) (SBC-599 only)

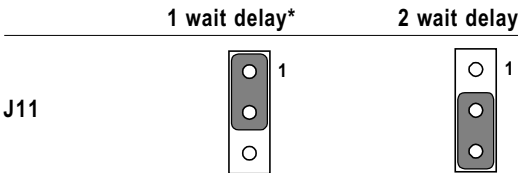
### J10 SCSI Select



\* default setting

## ISA Timing (J11) (SBC-599 only)

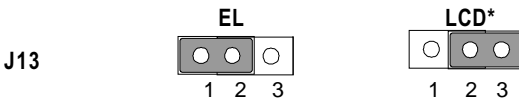
### J11 ISA Timing



\* default setting

## LCD/EL Select (J13)

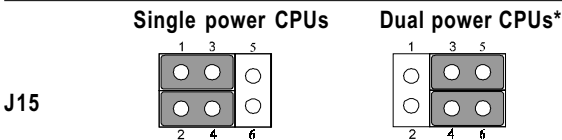
### J13 LCD/EL Select



\* default setting

## Dual Power Select (J15)

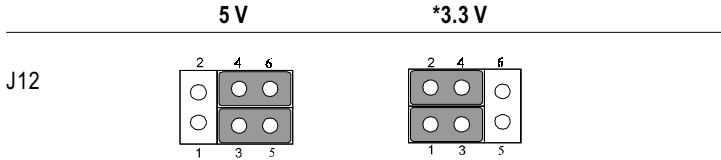
### J15 Dual Power Select



\* default setting

## LCD power select (J12) (SBC-599 only)

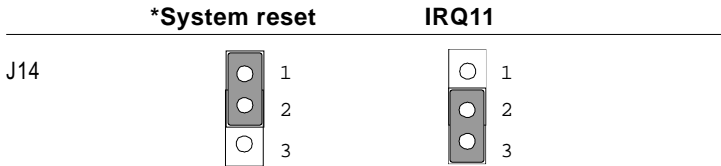
LCD power select



\* default setting

## Watchdog select (J14)

Watchdog select



\* default setting



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