SBC-775

Pentium® II Full-size CPU Card with SSD

SBC-775

Quick Installation Guide

Installation Guide

This Installation Guide gives background information on the SBC-775, and shows you how to configure the card to match your application and prepare it for installation into your system.

Safety Precautions

Warning! *Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.*

Caution! *Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.*

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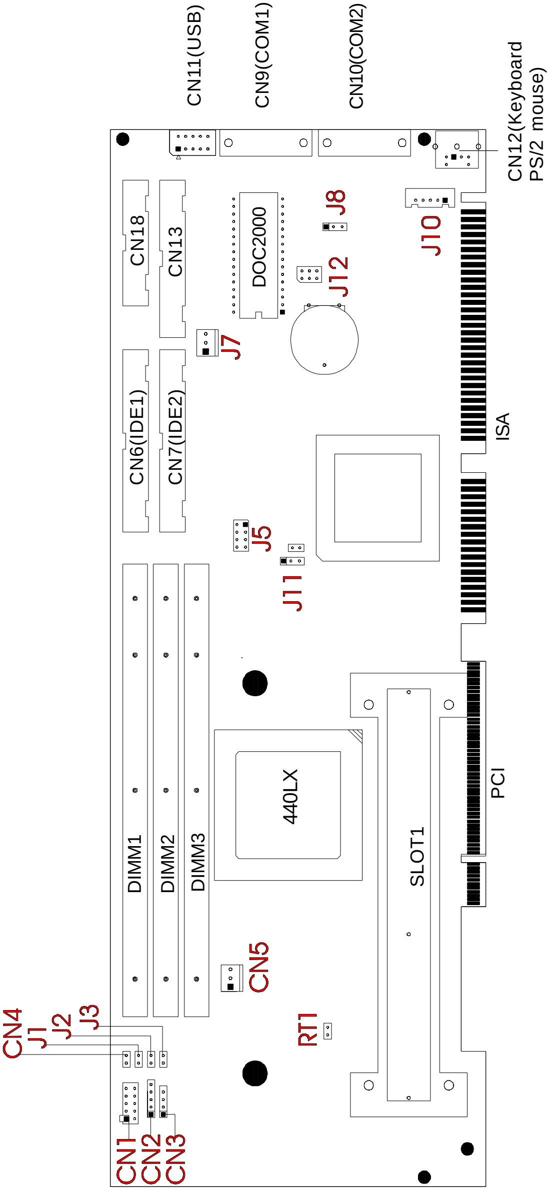
Location Jumper and connector



Jumpers and Connectors

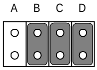
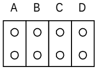
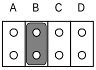
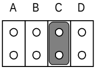
Table 1-1: Jumpers and connectors

Label	Function
J5	CPU core frequency
J6	Clear CMOS
J8	Watchdog output
J11	Clock select
J12	DiskOnChip® 2000 address select
CN1	Infrared (IR) connector
CN2	Keyboard lock
CN3	External speaker
CN4	IDE LED
CN5	CPU fan connector
CN6	Primary IDE connector
CN7	Secondary IDE connector
CN8	Parallel port
CN9	Serial port: COM 1
CN10	Serial port: COM 2
CN11	USB port
CN12	PS/2 keyboard and mouse
CN13	Floppy drive connector
CN14	(Reserved)
J1	ATX soft power switch
J2	Reset
J3	External SMI
J7	ATX feature connector
J10	External keyboard connector
RT1	(Reserved)

Jumper Settings

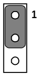
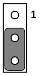
CPU core frequency (J5)

Table 1-3: CPU core frequency (J5)

	A	B	C	D	
233 MHz	open	closed	closed	closed	
266 MHz	open	open	open	open	
300 MHz*	open	closed	open	open	
333 MHz	open	open	closed	open	

CMOS clear (J6)

Table 1-4: CMOS clear jumper settings (J6)

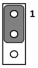
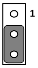
Function	**Jumper setting**	
Keep CMOS data	1-2 closed*	
Clear CMOS data	2-3 closed	

* default

* default

Watchdog timer output (J8)

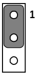
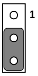
Table 1-5: Watchdog timer output (J8)

Function	Jumper setting	
IRQ11	1-2 closed	
Reset	2-3 closed*	

* default

CPU bus clock select (J11)

Table 1-6: CPU clock select jumper settings (J11)

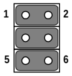
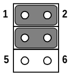
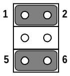
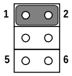
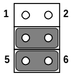
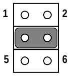
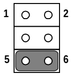
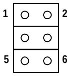
Function	Jumper setting	
66.6 MHz	1-2 closed*	
75 MHz	2-3 closed	

* default

Note: 75 MHz exceeds the product's specifications.

DiskOnChip® 2000 Flash disk address select (J12)

Table 1-7: DiskOnChip® 2000 Flash disk memory address jumper settings (J12)

Address	1-2	3-4	5-6	
C800	closed	closed	closed	
CC00	closed	closed	open	
D000	closed	open	closed	
D400	closed	open	open	
D800	open	closed	closed	
DC00	open	closed	open	
E000	open	open	closed	
Disabled*	open	open	open	

* default

ATX Power Control Connectors (J7 and J1)

ATX feature connector (J7) and soft power switch connector (J1)

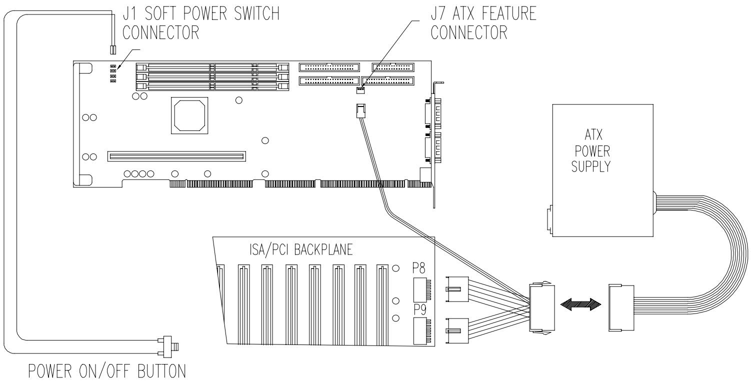
The SBC-775 can support an advanced soft power switch function if an ATX power supply is used. To enable the soft power switch function:

1. Take the specially designed ATX-to-PS/2 power cable out of the SBC-775's accessory bag.
2. Connect the 3-pin plug of the cable to J7 (ATX feature connector).
3. Connect the power on/off button to J1. (A momentary type of button should be used.)

Warnings: 1. Make sure that you unplug your power supply when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your CPU card and expansion cards.

2. ATX power supplies may power on if certain motherboard components or connections are touched by metallic objects.

Important: Be sure that the ATX power supply can take at least a 10 mA load on the 5 V standby lead (5VSB). If not, you may have difficulty powering on your system.



Controlling the soft power switch

It is easy to control the ATX soft power switch. Pushing the button once will switch the system between the "On" and "Suspend" power modes. Pushing the button for more than 4 seconds while in the "On" mode will turn the system off. Users can also identify the current power mode through the system's power LED, as indicated below:

ATX Power Mode	LED Status
System On	On
System Suspend	Flashes eight times/sec.
System Off	Flashes once/sec.