SBC-675

Celeron CPU Card with LCD, Ethernet, High Drive, & SSD

SBC-675

Quick Installation Guide

Notice:

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

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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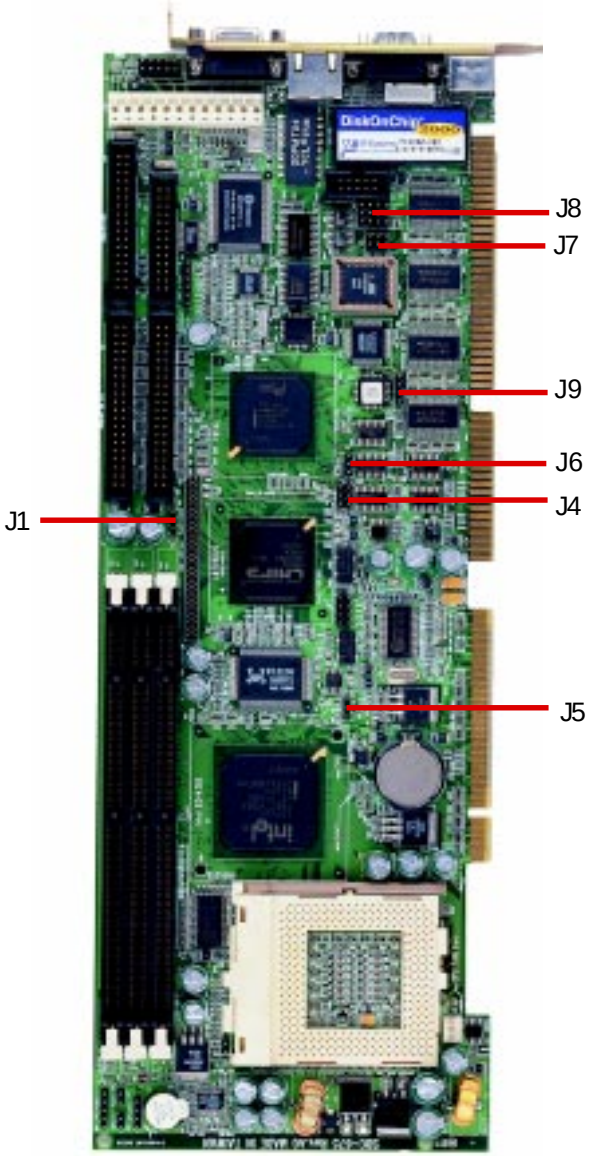
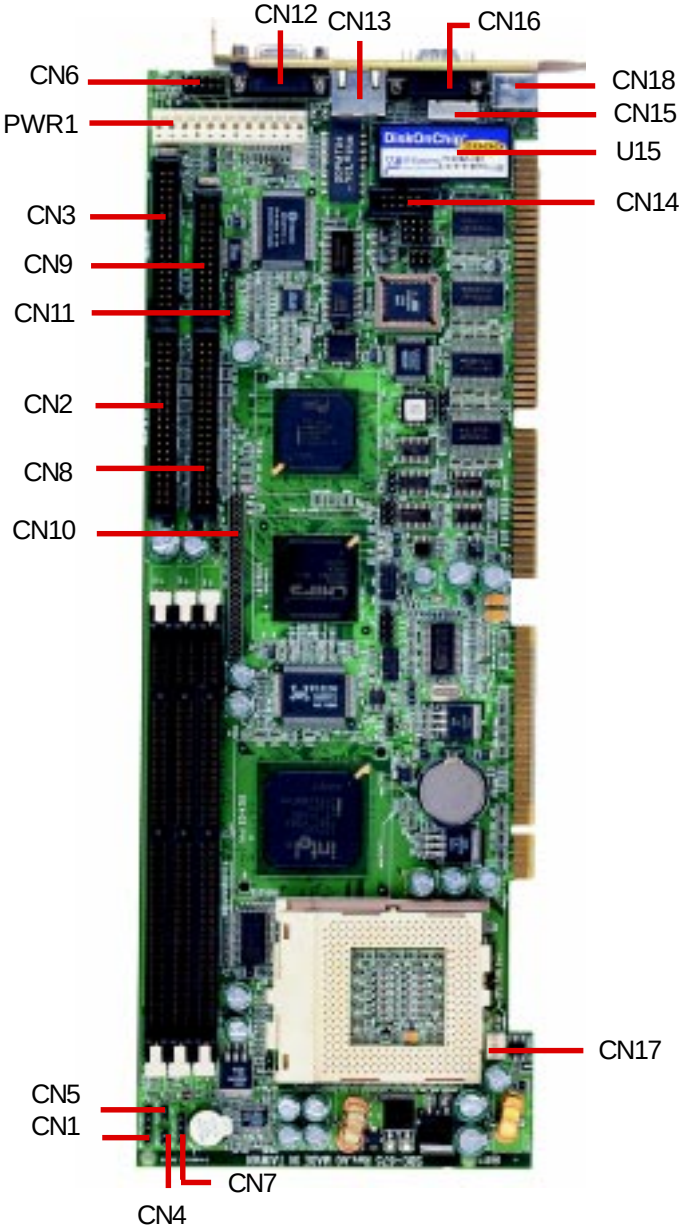
Locating jumpers



Locating connectors



Jumpers and connectors

Connectors on the board link it to external devices such as hard disk drives, a keyboard, or floppy drives. In addition, the board has a number of jumpers that allow you to configure your system to suit your application.

The following tables list the function of each of the board's jumpers and connectors.

Jumpers

Label	Function
J1	LCD driving voltage select
J4	CPU frequency ratio select
J5	Clear CMOS
J6	LCD clock signal select
J7	COM2 RS-232/422/485 select
J8	COM2 RS-232/422/485 select
J9	DOC address select

Connectors	
Label	**Function**
CN1	Power LED and keylock
CN2	IDE hard drive connector (Primary)
CN3	Floppy drive connector
CN4	IDE drive LED
CN5	Reset switch
CN6	USB connector
CN7	External speaker
CN8	IDE hard drive connector (Secondary)
CN9	Parallel port connector
CN10	LCD display connector
CN11	IrDA connector
CN12	VGA display connector
CN13	100Base-Tx Ethernet connector
CN14	COM2 RS-232/422/485 serial port connector
CN15	Internal keyboard connector
CN16	COM1 RS-232 serial port connector
CN17	CPU fan power connector
CN18	Keyboard and PS/2 mouse connector
U15	DiskOnChip socket
PWR1	Power connector

LCD driving voltage select (J1)

You can select the LCD connector CN10 (pin 5 and pin 6) driving voltage by setting J1. The configurations are as follows:

LCD driving voltage select (J1)

	5V	3.3V *
J1		

*default

Clear CMOS (J5)

You can use J5 to clear the CMOS data if necessary. To reset the CMOS data, set J5 to 2-3 closed for just a few seconds, and then move the jumper back to 1-2 closed.

Clear CMOS (J5)

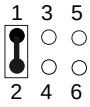
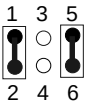
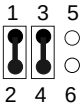
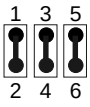
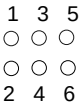
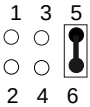
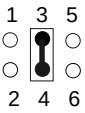
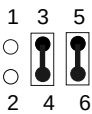
	Protect*	Clear CMOS
J5		

*default

CPU frequency ratio select (J4)

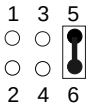
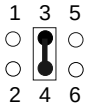
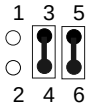
CPU core frequency = CPU frequency ratio (2~5.5) * External bus clock (66 or 100 MHz)

CPU frequency ratio select (J4)

2x	2.5x	3x
		
3.5x	**4x**	**4.5x***
		
5x	**5.5x**	
		

*default

Celeron CPU jumper setting examples

Celeron CPU	J4
300MHz	
333MHz	
366MHz	

Note:

Most Celeron CPUs' frequency ratio are pre-locked within the CPUs. These CPUs run at fixed speed (frequency) regardless of the configurations listed above.

If the CPU you are using requires higher ratio then 5.5X, it is most likely pre-locked.

LCD clock signal select (J6)

You can select the LCD control signal by setting J6. The following charts show the available option.

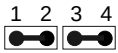
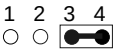
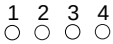
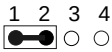
LCD clock signal select (J6)

	SFCLK-*	SHCLK
J6	 1 2 3	 1 2 3

*default

DOC address select (J9)

The DiskOnChip 2000 occupies an 8 Kbyte window in the upper memory address range of D400 to E000. You should ensure this does not conflict with any other device's memory address. J9 controls the memory address of the Flash disk.

DiskOnChip 2000 memory address (J9)	
Memory address (HEX)	
DISABLE	
DC00	
D400	
D800*	

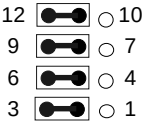
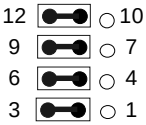
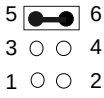
* default

These addresses might conflict with the ROM BIOS of other peripheral boards. Please select the appropriate memory address to avoid memory conflicts.

COM2 RS-232/422/485 select (J7, J8)

The SBC-675 COM2 serial port can be selected as RS-232, RS-422, or RS-485 by setting J7 & J8.

COM2 Select (J7, J8)

	RS-232*	RS-422	RS-485
J8			
J7			

*default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