CPU SHARING DEVICE

User Manual

CS-221

Read this guide thoroughly and follow the installation and operation procedures carefully in order to prevent any damage to the units and/or any devices that connect to them.

This package contains:

- 1 CS-221 CPU Sharing Device
- 1 x AC 9V 500mA Power Adapter
- 1 User Manual

If anything is damaged or missing, contact your dealer.

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Overview

The CS-221 is a powerful micro-processor controlled CPU sharing device. It is a multi-user, single-tasking, device that enables two users to share the use of a single computer - each from his own keyboard, monitor and mouse console.

The CS-221 is ideal for any small office environment. All programs, files and resources on the computer can be easily accessed and shared by both users without the bother and expense of setting up a costly network environment.

Features

- ◆ Supports PS/2, IBM PCs and compatibles
- ◆ Supports PS/2, AT, and auto-switchable keyboards
- ◆ Supports VGA, SVGA, and Multi-Sync monitors
- ◆ No Software required
- ◆ Single computer shared by two consoles
- ◆ Manual or Auto console selection
- ◆ Screen Saver function
- ◆ Private Mode for a privileged user
- ◆ Supports PS/2 Mouse

Installation

1. Make sure that power to all the devices you will be connecting up have been turned off. You must unplug the power cords of any computers that have the *Keyboard Power On* function.
2. To prevent damage to your equipment, make sure that all devices you will be connecting up are properly grounded.

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Connecting the Computer
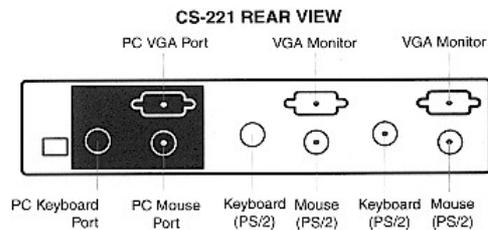
Refer to the diagram below and do the following:

1. Use a 6-pin mini-DIN male-to-male keyboard cable to connect the CPU Keyboard Port at the left of the CS-221's back panel to the computer's keyboard port.

2. Use a 6-pin mini-DIN male-to-female cable to connect the CPU Mouse Port at the left of the CS-221's back panel to the computer's PS/2 mouse port.

3. Use a DB-15 male-to-male video cable to connect the CPU Monitor Port at the left of the CS-221's back panel to the computer's monitor port.

Connecting the Consoles

Refer to the diagram below and do the following.

1. Plug the keyboard, mouse and monitor for the console that you want to designate as Console 1 into the Console 1 ports located on the rear panel of the CS-221.

2. Plug the keyboard, mouse and monitor for the console that you want to designate as Console 2 into the Console 2 ports located on the rear panel of the CS-221.

   Note: You must use the same type of mouse for Console 2 that you used for Console 1.

CS-221 REAR VIEW

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Finishing Up

To finish up the installation do the following:

1. Set the DIP Switch (see the DIP Switch Setting table for details).

2. Plug the power adapter into an external AC source; plug the power adapter cable into the unit's power jack.

3. Power on all computers and the monitors. Before turning on the computer, be sure the first port has a keyboard connected to it; otherwise, the error message:

   ```
   Keyboard error
   Press <F1> to RESUME
   ```

   appears. If this happens, connect a keyboard to the KB1 port on the CS-221's rear panel, then press the function key [F1] to continue.

The CS-221 will be ready for operation one minute after the DOS prompt appears on the monitor.

Dip Switch Settings

DIP Switch Number				Function
1	2	3	4	
On	On	X	X	5 Second Timeout
Off	On	X	X	15 Second Timeout
On	Off	X	X	45 Second Timeout
Off	Off	X	X	90 Second Timeout
X	X	On	X	Private Mode Enabled
X	X	Off	X	Private Mode Enabled
X	X	X	On	Screen Save Enabled
X	X	X	Off	Screen Save Enabled

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Operation

Auto Mode

Auto Mode operates according to the following rules:

1. When the CS-221 is turned on it comes up in Auto Mode, and operates on a first-come-first-serve basis. Both Console LEDs are On; the Manual LED is Off.

2. The first user to strike his keyboard has access to the computer. As soon as this occurs:
   - The CS-221, locks on to his console; during the time that he is locked on, the other user cannot access the computer;
   - The Console LED that corresponds to his console turns On;
   - The Console LED for the other console turns Off.

3. If the user who has access does not strike his keyboard or move his mouse before the Timeout Period (set with DIP Switches 1 and 2), elapses:
   - The CS-221 unlocks from his console;
   - The CS-221 switches to Auto Mode;
   - Both Console LEDs turn On (indicating that either console may access the computer);
   - The Manual LED is Off (since the CS-221 is in Auto Mode)

4. A user may terminate his access by either hitting the Left Shift Key six times to switch the CS-221 back to Auto Mode, or by pressing the Manual Button to select the other console.

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Manual Mode

Manual Mode is used to access the computer for a long period of time. It is invoked by repeatedly pressing the Manual Button to bring the focus to the desired console as follows:

Auto Mode > Console 1 > Console 2 > Auto Mode

When Manual Mode is invoked, the CS-221 locks onto the selected console and prohibits the other console from accessing the computer. The lock remains in effect until the Manual Button is pressed again.

Private Mode

Private Mode is provided for security reasons. When Private Mode is invoked, only Console 1 has access to the computer, and the CS-221 disables Console 2 from seeing its operations. To invoke Private Mode:

1. Set DIP Switch 3 to the ON position before turning on the CS-221

2. From the Console 1 keyboard, press the Right Shift key six times

   To end Private Mode:

   From the Console 1 keyboard, press the Right Shift key six times

   Or

   Press the Manual Button.

Screen Saver

To protect the screen phosphors, when the CS-221 is in Auto Mode and no one is accessing the computer, a Stripe image can scroll down the screen. To enable this function, set DIP Switch 4 to the ON position before turning on the CS-221.

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Specifications

Function	Specification
Number of Users	2
Shared Functions	Keyboard, Monitor and Mouse
LEDs	2 Consoles Selected
	1 Manual Status
Function Keys	Automatic / Manual Selection
Timeout Settings	5-90 Seconds
Keyboard Settings	3 Mini DIN-6 Female (input/output)
Serial Mouse Settings	1 DB-9 Female (input)
	2 DB-9 Male (output)
PS/2 Mouse Connectors	3 Mini DIN-6 Female (input/output)
VGA Connectors	3 High Density DB-15 (input/output)
Enclosure	Metal and Plastic
Weight	2650g
Dimensions (L x W x H)	254 x 180 x 82 (mm)

Limited Warranty

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