

Hostess[®] 550 16 Hardware Installation Card

Scope

This *Hardware Installation Card* discusses the following topics for the Hostess 550.

- Installation overview
- Identifying your controller
- Setting the base I/O address and IRQ switches
- Daisy-chaining IRQs
- Setting communications jumpers
- Installing the controller
- Specifications
- Troubleshooting and placing a support call

The Control web/ftp site contains additional information:

- [Signal information for the 100-pin connector on the controller](#)
- [Connector information for your interface.](#)
- [Building loopback plugs](#)
- [Additional device drivers](#)
- [Software installation documentation](#)

Note: Call Technical Support if you require a Hostess Series and Hostess 550 Series Programming Guide.

Installation Overview

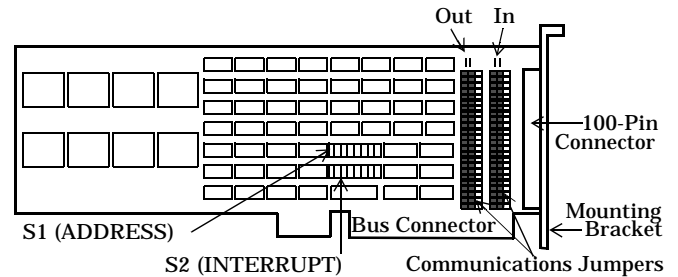
Installation follows these general steps:

1. Set the base I/O address and IRQ switches to unused values for your machine.
2. Install the controller board.
3. Configure and attach the interface box, if applicable.
Note: See the *Interface Reference Card* to configure the interface (if applicable).
4. Attach peripherals to the interface box.
Note: You must provide the serial cables to connect the peripheral devices to the controller.
5. Install the device driver. You may need to download a driver and the software installation documentation at:
www.comtrol.com or ftp.comtrol.com

Identifying Your Controller

The following figure illustrates the position of the controller's basic parts, such as:

- The communications jumpers, which are set to RS-232 mode by default. If you plan on using RS-422 mode, you must move the shorting jumpers.
- The S1 switch, which sets the I/O address. The S2 switch, which sets the interrupt for the controller.
- The Out and In headers for daisy-chaining multiple controllers.



Setting the Base I/O Address

Use the following table to set the base I/O address. Make sure that you select unused address in your system. If you are unsure what settings are available, refer to your system documentation.

Note: The default I/O address from the factory is 500.

I/O Address Range	S1 Switch
200 - 27F	ON
280 - 2FF	ON
500 - 57F Default	ON
580 - 5FF	ON

Setting the IRQ

Use the following table to set your controller to an unused IRQ value for your system.

Note: The default IRQ setting from the factory is 3, which may conflict with COM2 and COM4.

IRQ	S2 Switch	IRQ	S2 Switch
2	ON ↑ 1 2 3 4 5 6 7 8	3 Default	ON ↑ 1 2 3 4 5 6 7 8
4	ON ↑ 1 2 3 4 5 6 7 8	5	ON ↑ 1 2 3 4 5 6 7 8
10	ON ↑ 1 2 3 4 5 6 7 8	11	ON ↑ 1 2 3 4 5 6 7 8

12

ON ↑
1 2 3 4 5 6 7 8

† Switch 1 sets mask enable.

Set Switch 1 to **OFF** for the following operating systems:

- DOS
- OS/2®
- QNX®
- Windows® 95, Windows 98, and Windows NT

Set Switch 1 to **ON** for the following operating systems:

- AT&T®
- INTERACTIVE® 386/ix
- Microport V/386
- SCO® Xenix®
- SCO Unix® and SCO OpenServer™
- SunOS™

The mask register is an 8-bit register that allows you to disable interrupts for each port individually or in any combination. Any port interrupt can be masked or disabled by writing a 0 to the corresponding bit in the mask register. The interrupt is enabled by writing a 1.

- If position 1 of the interrupt switch is ON, the mask register is enabled. This allows you to individually mask the interrupts received from the I/O ports.
- If position 1 is OFF, the mask register is disabled and the interrupts can not be masked individually.

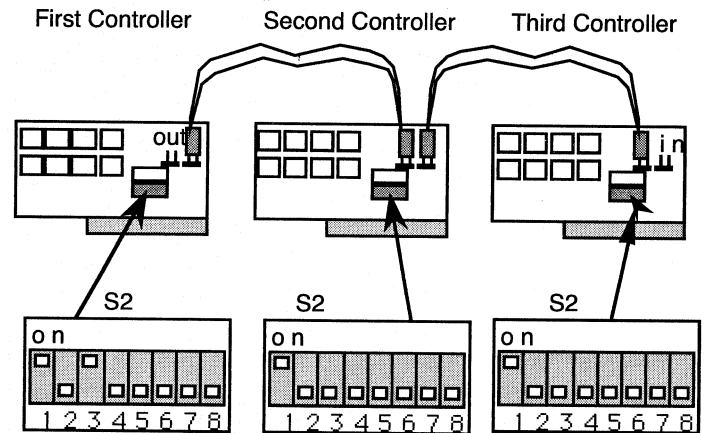
Daisy-Chaining Controllers

If you have more than one controller installed in your system, you can choose a different interrupt line for each controller by making a different selection on each S2 switch.

To use the same interrupt line for all of the controllers in your system, perform the following steps:

1. Set the IRQ on the first controller.
2. Connect the controllers together using daisy-chain connections. The daisy-chain connections are made from ribbon cable, available on request from Control.

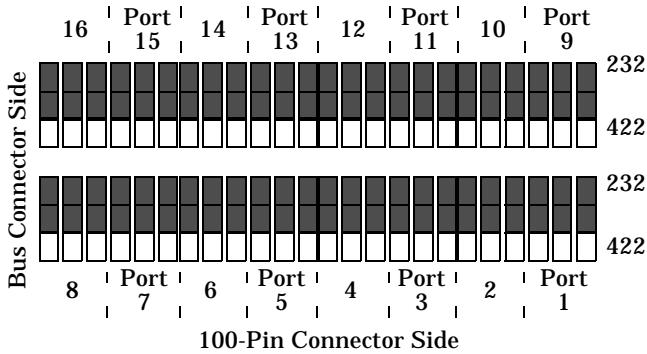
Note: You can daisy-chain up to four Hostess or Hostess 550 series controllers.



Setting the Communications Jumpers

The following figure shows you how to set the communications jumpers for RS-232 or RS-422 mode. The default mode is RS-232.

To set the jumpers to RS-422 mode, move the jumpers from Pins 1 and 2 to Pins 2 and 3 for each port that you want to use RS-422 mode.



Installing the Controller

If you have not done so already, set the switches on the controller. If the switches have already been set, use the following steps to install the controller.

Warning *Static electricity may damage the controller. When touching and installing the controller, wear a grounding strap. Hold the controller only by its edges or the mounting bracket.*

1. Turn the power switch for the system unit to the OFF position.
2. Remove the system unit cover.
3. Select a slot to install the controller.
4. Remove the expansion slot cover.
5. Insert the controller in the expansion slot, making sure that it is properly seated.
6. Attach the controller to the chassis with the expansion slot screw. Repeat Steps 3 through 5 for each controller.
7. Replace the cover on the system unit.

Note: *If installing in an EISA system, you may need to use the EISA configuration files on the diskette. See the readme file in the EISACFG directory for configuration information.*

Once the controller or controllers are installed, you can connect your peripherals.

Specifications

The following tables list the controller's conditions and specifications.

Environmental Condition	Value
Air temperature: System on System off	0 to 40°C -20 to 85°C
Humidity (non-condensing): System on System off	8% to 80% 20% to 80%
Altitude	0 to 10,000 feet

Electromagnetic Compliance	Status
Emission: Canadian EMC requirements CISPR-22/EN55022 Class A FCC PART 15: Class A	Yes
Immunity: EN50082: 801-2 ESD, 801-3 RF, 801-4 FT	Yes
UL Recognized	Yes

Card	Specification
Baud rate:	50 to 115.2K baud
Bus interface	ISA
Data bits	5, 6, 7, or 8
Current consumption	$\frac{+5V}{1,200 \text{ mA}}$ $\frac{+12V}{60 \text{ mA}}$ $\frac{-12V}{50 \text{ mA}}$
Dimensions	13.25" x 4.5"
Heat output	24.98 BTU/HR
<i>Note: Interface heat output is approximately 25% of this total.</i>	
Hostess cards/system	4
I/O port address default	500 hex
I/O ports/expansion slot	16
Interface: Default:	RS-232
Set with communications mode jumpers	RS-422
Interrupt (IRQ) Hardware selectable	2, 3, 4, 5, 11, and 12 Default: 3
Modem control	RTS, CTS, DCD, DTR* * DTR not supported on Ports 11 and 12
Stop bits	1, 1.5, or 2
Surge protection	Provides ESD surge protection exceeding 10 KV.
DUART	16C552

Troubleshooting

If installation fails or you are trying to resolve a problem, you should try the following before calling the Control technical support line:

- Reinstall the controller and device driver, selecting a different I/O address range and IRQ.
- Check the signals between your peripherals and the interface to verify that they match.
- Check to make sure the cables are connected properly.
- Reseat the controller in the slot (power must be OFF).
- Reboot the system.

If you have not been able to get the controller operating:

1. Turn off your PC.
2. Boot the PC from the diagnostic diskette and follow the instructions.

Technical Support

Control has a staff of support technicians available to help you. Before you call, please have the following information available:

Item	Your System Information
Model number	
Serial number	
Interface type	
I/O address and IRQ	
Operating system type and release	
Device driver version	
PC make, model, and speed	
List other devices in the PC and their addresses	

Control	Headquarters	Europe
Phone	(651) 631-7654	+44 (0)1869 323220
FAX	(651) 631-8117	+44 (0)1869 323211
Email	support@comtrol.com	support@comtrol.co.uk
web site	www.comtrol.com	www.comtrol.co.uk
ftp site	ftp.comtrol.com	

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