|	Date:	March 1, 2004
	Model:	BRIC GOLD
	Subject:	HyperTerminal Documentation

T E C H N I C A L   I N F O R M A T I O N

This procedure should be used if you are unfamiliar with Microsoft's HyperTerminal Serial Communication Application program Please contact your IT manager if this program is not familiar with you.

ITEMS YOU WILL NEED:

- Computer with serial port connection

- RS232C cable with DB-9 to RJ-45 terminations (see below drawing). You should observe standard industry practices of keep your serial cable to less than fifty (50) feet in length. Use a cable tester or ohm meter to check your connections. 99.9999% of serial problems can be pinpointed to wiring issues. Check and double check your connections before proceeding any further
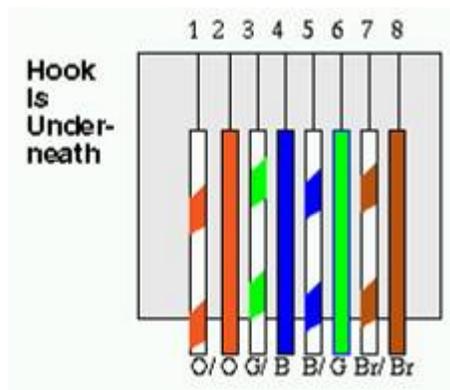
| RJ-45 (BRIC side)	CAT 5 color	DB-9 (PC side)
#1 RTS	Orange/White	
#2 CTS	Orange	
#3 GND	Green White	To DB-9 pin #5 (tied together-see below)
#4 TX	Blue	To DB-9 pin #2
#5 GND	Blue White	To DB-pin 5 (tied together—see above)
#6 RX	Green	To DB-9 pin #3
#7 485+	Brown/White	

#7 485 -	Brown	

- Stewart Filmscreen BRIC unit connected to AC power and switched on

DIRECTIONS:

1. Launch the HyperTerminal computer program. You can find this program on your Windows system by following the below s

    1. Select Program, select Accessories, Select Communications, Select HyperTerminal:
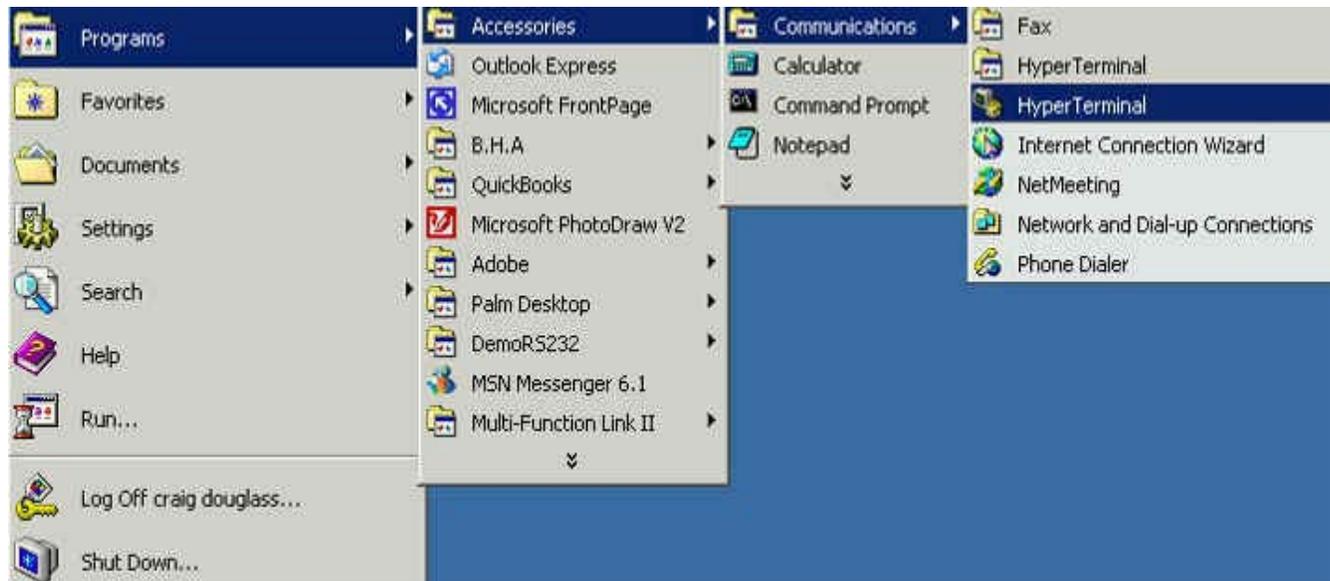
2. In the Connection Description menu, type in BRIC and select an icon (anything) and click OK:

3. In the Connect To menu, *you will need to select an alternative other than the default of modem communication.* You
need to know what communication port (COM port) to which your BRIC is connected. If your BRIC is connected to COM1 the

scroll through the various options until you find COM1. If your BRIC is connected to COM2 or some other COM port, you must continue to scroll through the various options until you find the particular COM port to which your BRIC is connected.

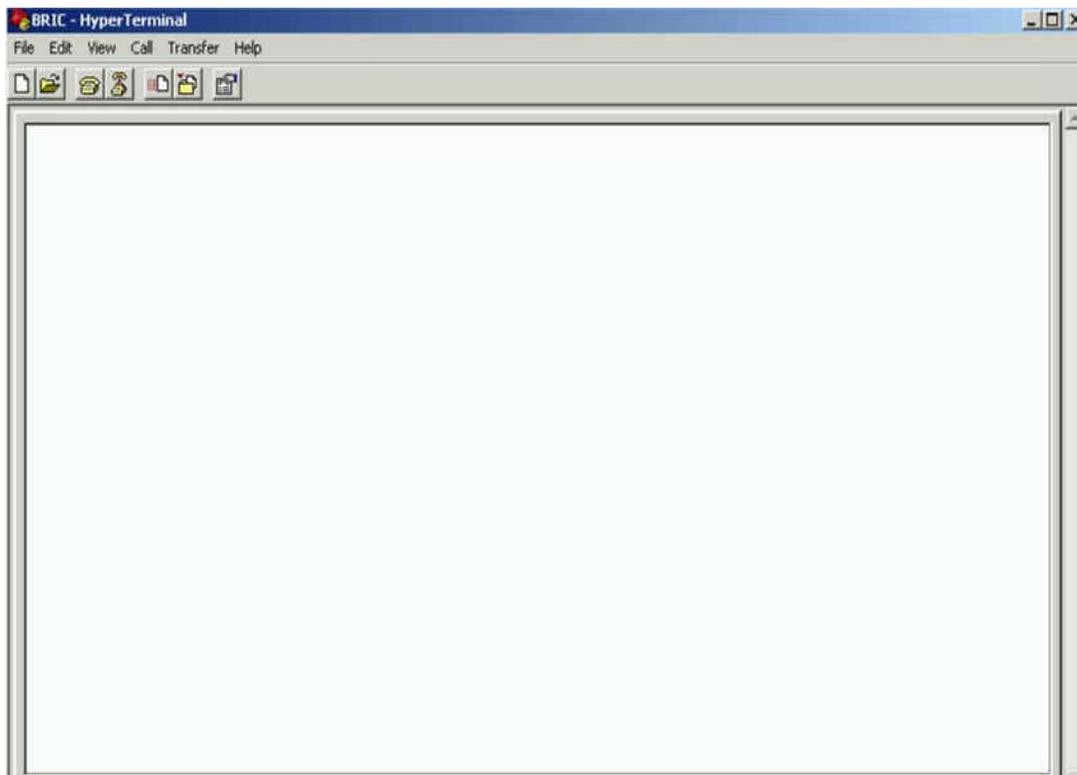After you have set the correct COM port (i.e. 1,2,4,5, etc.), click OK

4.In the COM X properties menu, select **19200** bits per second, **8** data bits, **None** Parity, **1** Stop Bit, **None** Flow Control (impo not to leave it set to the default of Hardware) and click OK.
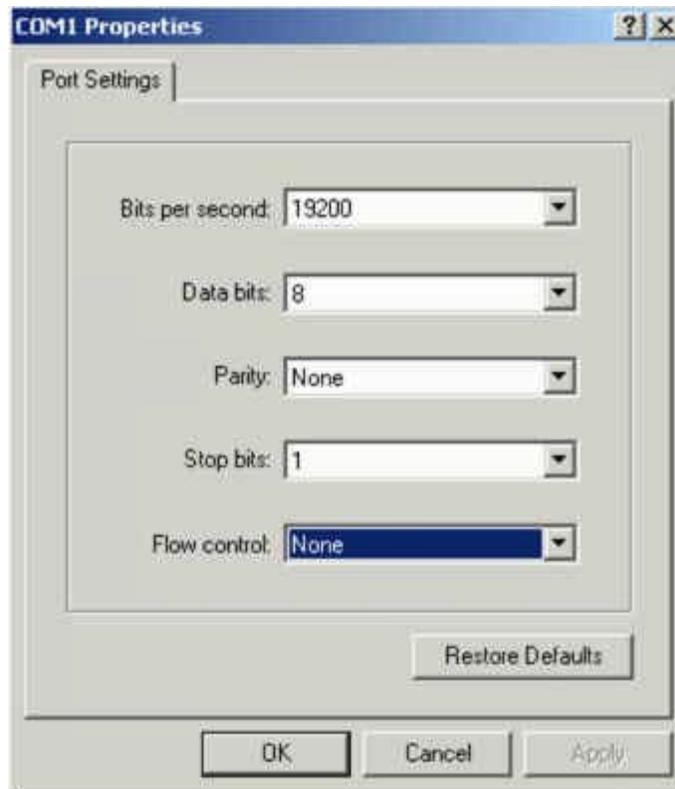
5. In the BRIC HyperTerminal window, type in **00Q** and then hit ENTER to verify that communication is working in both directio

Be very sure to enter this string in **UPPERCASE** and do not enter any extraneous characters such as the ESC key or a LF (linefeed) or the BACKSPACE key or other special characters as this will place the BRIC in a non-standard mode. The inform returned by the BRIC will appear as a sequence of numerical values. You will not need to know what these values mean, but i do not see these values mirroring back to your HyperTerminal window, you know that (i) your receive line on your cable is ba (ii) your BRIC is not functioning, or (iii) your serial cable is not otherwise wired correctly. Please check your wiring harness on again, and if this does not solve the problem, power cycle your BRIC and try this test once again.

Here is what your HyperTerminal window will look like. If you do not type in 00Q, you will never see any characters appear or screen. **Do not** try to erase or use the back space or delete keys to reset your cursor. By doing this, you will put the BRIC in a standard state. In this case you may see some Question Marks (?) on the screen. In this case, power cycle your BRIC unit an this test once again.

6. You are now ready to begin testing. The first step is to send a command to move the Channel A motor (usually the main sc Type in the following:

01DA and hit ENTER

You will not see these characters displayed on the hyper terminal window. Make sure you use upper case only. The Channel motor should now down. If the Channel A motor is already down, type in the following to move the motor the other direction:

01UA and hit ENTER

You may not try all the other primary move commands as specified below to verify the proper operation of the BRIC. For a sta BRIC system with up to three motors, the following commands will cause various motors of the BRIC to move. Depending up exact configuration you have, various commands such as UP or DOWN may really mean IN or OUT. However, what your are looking for here is to see the BRIC move using serial communication only.

Motor A UP	01UA (that is a zero, one, upper case U and
Motor A DOWN	01DA
Motor B UP	01UB
Motor B DOWN	01DB
Motor C UP	01UC
Motor C DOWN	01DC

NEXT STEPS:

Many dealers and installer experience difficulty in setting up proper serial communication from computer systems and remote
devices. We have found it most useful to validate serial communication from a known-good laptop or other computer using
Microsoft's provided HyperTerminal program first. Then and only then, after the BRIC module, the connected Stewart Filmscre
and the available serial cable are shown to be working successfully, it is then appropriate to begin hooking up and testing with
alternative home automation products, such as a Crestron, AMX or Elan VIA systems. If after you have tested your BRIC syst
and you are having troubles with your particular home automation controller, please refer to the support staff at those compan
more information. If you are unsuccessful in setting up serial communication with your BRIC unit, you can contact Stewart
Filmscreen for additional help by phone at 310. 326.1422.

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