AC smart START

Quick Start Reference Guide

This is a quick start reference sheet designed to provide all the information necessary to “get connected” to the Smart Start JR Power Distribution Unit.

Using the Spectrum Control Interface software:

1) Install the software provided.
2) Connect one side of a straight thru RS-232 cable from the computer serial communication port. The connector on the PC should be a 9 pin D-sub male connector.
3) Connect the other side of the RS-232 cable to the PDU 9 pin D-sub connector labeled “DTE”.
4) Connect the AC power cord to the PDU in the rear of the unit.
5) Make sure that the circuit breaker(s) on the front of the unit are turned to the “ON” or “1” position.
6) Make sure that the “remote” green LED is on. If the “local” LED is on, push the “COMM” button once to change the PDU into remote mode.
7) Double click the PDU icon on the computer and do the following:
   A) Click on the “Connect to a PDU” button (button on the left).
   B) Then click “AC Power Controller.”
   C) Choose either 1x8 or 2x4 and click on “Connect to PDU.”
8) The software will automatically search for the PDU and connect. If you see the transmit and receive lights on the computer screen flashing, you have successfully connected to the PDU.
9) If you experience any difficulties with connecting, please contact the factory.

Using Windows HyperTerm:

1) Connect one side of a straight thru RS-232 cable from the computer serial communication port. The connector on the PC should be a 9 pin D-sub male connector and is most commonly known as Com1.
2) Connect the other side of the RS-232 cable to the PDU 9 pin D-sub connector labeled DTE.
3) Connect the AC power cord to the PDU in the rear of the unit.
4) Make sure that the circuit breaker(s) on the front of the unit are turned to the “ON” or “1” position.
5) Make sure that the “remote” green LED is on. If the “local” LED is on, push the “COMM” button once to change the PDU into remote mode.
6) Launch a HyperTerminal session. It should be located under the menu choice “Start”, “Programs”,”Accessories ”, “Communications”, “HyperTerminal” or C:\ProgramFiles\Accessories\HyperTerminal\Hypertrm.exe. You may have to search your local computer hard drive for Hypertrm.exe or contact your LAN personnel for assistance.
7) Once HyperTerminal is launched, the first thing to do is to name the connection. Type in “SSJR” for the name and click on “OK”.
8) HyperTerminal will ask you what you want to connect to. In the “connect using:” item select “Direct to Com1”. If the RS-232 cable is plugged into another communication port then select that one. Then, click “OK”.
9) HyperTerminal then asks for the configuration of the SSJR PDU. By default select “9600” Bits per second, “8”

SPECTRUM POWER Management Systems
A Spectrum Control Business

data bits, “None” for parity, “1” for stop bit, and “None” for Flow control. Then click on “OK”.

10) Connect the AC power cord to the PDU in the rear of the unit.
11) Ensure that you have CAPS lock enabled on your computer.
12) Type in “AFFE”. Then press enter, and the Power Distribution Unit should respond back “UFFE”.
13) If there are any difficulties connecting, please contact the factory.

Using Telnet Connected Directly to a Standalone PC:

1) Connect one side of crossover LAN cable from the computer Network card. This guide assumes that the PC is configured for a minimum 10 BaseT communications rate using standard LAN protocols.
2) Connect the other side of the crossover cable to the to PDU LAN jack in the front of the unit.
3) Connect the AC power cord to the PDU in the rear of the unit.
4) Make sure that the circuit breaker(s) on the front of the unit are turned to the “ON” or “1” position.
5) Make sure that the “remote” green LED is on. If the “local” LED is on, push the “COMM” button once to change the PDU into remote mode.
6) Launch a Telnet session. It should be located under the menu choice “Start”, “Run”. At the prompt, type “Telnet 192.168.1.10 3001” or launch C:\Windows\Telnet.exe and connect to 192.168.1.10. You may have to search your local computer hard drive for Telnet.exe, or contact your LAN personnel for additional assistance.
7) Type “@ssjr@ssjr” and hit enter. NOTE: This is case sensitive, and you will not see this while typing the first time.
8) The PDU will respond with “@ssjr@ssjr65535”. If this response does not come up, repeat step 7 until this response is returned. NOTE: From this point on, you will see what you are typing.
9) Ensure that you have CAPS lock enabled on your computer.
10) Type in “AFFE” and press enter. The Power Distribution Unit should respond back “UFFE”.
11) If there are any difficulties connecting, please contact the factory.

Using an External Modem with SSJR:

An external modem can be connected to the Smart Start JR for “Out of Band” communication purposes. The modem (#1) connected to the SSJR can be connected to the telephone lines, and a remote computer also with a modem (#2) can send commands to the SSJR. The following step by step instructions are intended to quickly get the configuration for this communication scheme in place.

The user must have a computer, two modems, a smart start JR, an interface cable between the modem and SSJR, and two cables to interface between the modems and phone jacks.

The modem connected to the SSJR must be capable of and configured for auto answer mode. USRobotics models 56K or 33.6K modems have such features as well as many other manufacturers.

SETUP MODEM (#1) AND SSJR

1) Configure modem #1. This is the modem next to the SSJR. Check the manufacturer’s documentation on how to set up the modem for auto answer. Typically it is a DIP switch setting on the modem or by using the serial command “ATS0=1”. All other factory default settings on the modem are compatible with the SSJR.
2) The cable between the modem (#1) and the SSJR should have a DB25 male connector on one end and a DB9 female on the other. Typically the modem manufacturer includes this cable in the external modem kit. If not, the user is to purchase an RS-232 serial cable. Connect the DB25 end to the modem and the DB9 end to the SSJR connector marked “DCE”.
3) Install the phone cable between the modem (#1) and the phone jack. The connection should be to an analog phone line. Note the phone number of this phone line._____

4) Turn on the modem (#1). If the modem has an “AA” light (auto answer), it should be illuminated at this time.
5) Connect the AC power cord to the PDU in the rear of the unit.
6) Make sure that the circuit breaker(s) on the front of the unit are turned to the “ON” or “1” position.
7) Make sure that the “remote” green LED is on. If the “local” LED is on, push the “COMM” button once to change the PDU into remote mode.

SETUP COMPUTER AND ISSUE COMMANDS

1) The computer that is used to issue commands also needs a modem (#2) to connect to the telephone line. This also needs to be an analog telephone line, not a digital line.
2) Install the modem and software provided by the modem manufacturer per the manufacturer’s instructions if it is not already operational on the computer.
3) Configure modem (#2) so it can dial the SSJR and modem (#1). There are several different communication programs. For simplicity, this example will use Hyperterm for communications.
4) Launch a HyperTerminal session. It should be located under the menu choice “Start”, “Programs”, ”Accessories”, “Communications”, “HyperTerminal” or C:\ProgramFiles\Accessories\HyperTerminal\Hypertrm.exe. You may have to search your local computer hard drive for Hypertrm.exe or contact your LAN personnel for assistance.
5) Once HyperTerminal is launched, the first thing to do is to name the connection. Type in “SSJR” for the name, and click on “OK”.
6) HyperTerminal will ask you what you want to connect to. Select the proper country. In the area code box, type the area code where the modem (#1) and SSJR are located. In the phone number box, type the phone number where the modem (#1) and SSJR are located. In the “connect using:” item select the modem (#2) identified on the list that is connected to the remote computer. Then click “OK”. If no modem is available to select, re-install the modem and modem drivers per the manufacturer’s recommended instructions
7) HyperTerminal then asks to dial the phone number. Ensure that the area code and phone number are for the SSJR and modem (#1), and click on Dial. The computer will dial the modem and SSJR.
8) If the modem (#2) is capable of generating sounds, you will hear a dial tone and a phone number being dialed. You will then hear a series of tones which is the two modems connecting and synchronizing. Once the tones stop, the connect screen will close and “connected” with an active timer will be visible in the lower left corner of the Hyperterm screen. If no tones are audible, wait for the connect screen to close and look for the “connected” with an active timer to appear in the lower left corner of the Hyperterm screen.
9) Ensure that you have CAPS lock enabled on your computer.
10) Type in “AFFE” and press enter. The Power Distribution Unit should respond back “UFFE”. (Note: The characters “AFFE” will not be displayed as you type on your computer screen)
11) If there are any difficulties connecting, please contact the factory.