# Jupiter with ARC-PS



Connecting ARCs to Jupiter hardware is simple using the (RJ-45) ARC port on either the front or back of the device. These ports not only provide communication (RS-485) data, but also +24 VDC power. If the required number of ARCs exceeds the current limits of the Jupiter ARC port(s), an ARC-PS can be used to power additional ARCs. Connecting a Jupiter ARC port to the RS-485 port on the ARC-PS is easily accomplished by following one of two methods.

## Method 1: Modify an off the shelf CAT-5 cable.

1. Cut off one end of the CAT-5 cable.
2. Wire three of the wires to a terminal block connector such that:

   A = dark blue.

   B = light blue.

   Ground = dark green or aqua.

   **Note:** light blue is twisted with the dark blue, aqua with dark green.
3. Connect the RJ-45 to the ARC port on Jupiter.
4. Connect the terminal block connector to the RS-485 port on the ARC-PS.
5. Connect your ARCs to the RJ-45 ports on the ARC-PS.
6. Program your ARCs with the External Controller Wizard in the Jupiter software.

## Method 2: Make your own cable.

1. Crimp an RJ-45 connector to one end of a CAT-5 cable.

   **Note:** Only pairs 4+5 and 3+6 are necessary, so STP cable could be substituted by sharing the ground.
2. Wire three of the wires to a terminal block connector such that:

   A = pin 4.

   B = pin 5.

   Ground = pins 3 and 6.
3. Connect the RJ-45 to the ARC port on Jupiter.
4. Connect the terminal block connector to the RS-485 port on the ARC-PS.
5. Connect your ARCs to the RJ-45 ports on the ARC-PS.
6. Program your ARCs with the External Controller Wizard in the Jupiter software.

**NOTE:** Refer to the ARC Network Design topic in the Jupiter help file for more information.



**ARC PORT PINOUT**

1 • AUDIO (+)
2 • AUDIO (-)
3 • COMMON GROUND
4 • RS-485 DATA (A)
5 • RS-485 DATA (B)
6 • COMMON GROUND
7 • POWER (+V)
8 • POWER (+V)

**Note:** The ARC Audio line may be grounded at the Symetrix rack-mount device and the ARC wall panel to provide additional distance.