

Two vertical Mono-Band Array

Application note by Array Solutions

Equipment

StackMatch II

180 degree phasing switch box

180 degree phase line, coaxial cable 50 ohms

Two feedlines for the antennas .375 EL long each coaxial cable 50 ohms

The StackMatch II controller is to be wired up 1 to 1 with the relay box, the AUX output is to be wired to close the 180 degree phasing box. A 13.8V DC power supply with at least 500ma of current should be wired to the controller PCB.

The following diagram shows the basic wiring diagram.

The Selector switch will give the following patterns

Ant 1 U	Gain toward antenna 1 F/B about 10-12 dB
Ant 2 L	Gain toward antenna 2 F/B about 10-12 dB
Both B Both in phase	Broadside figure 8
AUX both out of phase	Endfire Figure 8

