

**Electronic Controlled Systems, Inc., dba King Controls, Inc.**  
**Model: VQ1 (Base unit)**  
**Operational Description**

The Main Board contains a microcontroller that interfaces with a radio IC over an SPI bus and a dual motor control IC over digital lines. The radio IC Receives messages from the remote which are read by the microcontroller and acted upon. The actions could include incremental motion of azimuth or elevation motors (jogging) or direct motion to a previously stored position. The main board has power conditioning circuits to draw separate power for the microcontroller and the motor drive from the LNB power source provided by the satellite receiver. The board is always powered as long as the LNB is being powered by the receiver.