# This document describes how to get the raw encoder values of an antenna via the control box telnet connection.

## Intro:

Connect to control as ATA antenna “ssh ataant@control” then telnet to the antenna at port 23 “telnet 5b 23”

## Important:

The quadrature encoder peripheral on the BBB processor sometimes (rarely) gets into a weird state where it doesn't track the quad-enc changes properly and the values appear to flicker. That can make it impossible to do find encoders if the index positions are captured incorrectly. I haven't looked into how to reset it directly if possible (it might be), but power cycling (not rebooting) fixes it.

A screenshot of a computer

Description automatically generated

## Wiring setup for encoder test on ant0:

A diagram of a connector

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