Supported Commands

Basic DSC Mode (BDSC)

Decoder Key:

- XXXXX = a five digit number in decimal format
- [a|b] = "a" or "b"
- [1-10] = Any value between 1 and 10 inclusive
- \r = <CR>
- \t = <TAB>
- <some text> = a variable length string like this description

Commands:

- A
    - Returns:
    - Action: Set aligned flag = True
- a
    - Returns: Y or N
    - Action: Returns if the scope has been aligned or not
- Q
    - Returns: [+|-]XXXXX\t[+|-]XXXXX\r
    - Action: Get encoder DSC values (RA, DEC)
- R XXXXX XXXXX\r
    - Returns: <nothing>
    - Action: Set encoder resolution (RA, DEC)
- Z XXXXX XXXXX\r
    - Returns: *
    - Action: Set encoder resolution (RA, DEC)
- G
    - Returns: [+|-]XXXXX\t[+|-]XXXXX\r
    - Action: Get encoder resolution (RA, DEC)
- H
    - Returns: [+|-]XXXXX\t[+|-]XXXXX\r
    - Action: Get encoder resolution (RA, DEC)
- V
    - Returns: <version>\r
    - Action: Get the software version of TeensyDSC
- q
    - Returns: XXXXX\r
    - Action: Get the error count
- T

- Returns: XXXXX,XXXXX\r
      - Action: Toggle Test mode. Prints encoder resolutions every 100ms
  - P
      - Returns: P
      - Action: Pretends to "power up" the encoders
  - MODE WIFI\r
      - Action: Switch to WiFly Command mode (see below)
  - MODE CONFIG\r
      - Action: Switch to TeensyDSC Command mode (see below)
  - MODE SERIAL\r
      - Action: Connect to Serial Port A

WiFly Commands (MODE WIFI)

In this mode, most everything you type is passed directly to the WiFly chip. In order to talk to it, you'll want to read the WiFly User's Guide.

Note, while in this mode the digital setting circiles (DSC) feature of the device will be unusable.

Warnings:

  - Manually configuring your WiFly board may "brick" it and render it un-operable!

  - If you enter "command mode" ($$$), make sure you also exit command mode too! (exit)

  - Do not change the command to enter "command mode" as described in section 2.6.1 of the user manual! Doing so will break TeensyDSC!

  - EXIT\r

      - Action: Stop talking to the WiFly and return to the previous mode

TeensyDSC Commands (MODE CONF)

WiFI Config commands

  - showconf\r
      - Action: prints the current TeensyDSC config
  - ssid <ssid>\r
      - Action: Changes the SSID of the AP
  - wpa [on|off]\r
      - Action: Enable/disable WPA security of the AP
  - wpa pass <password>\r
      - Action: Changes the WPA password of the AP
  - channel [1-13]\r
      - Action: Changes the WiFi channel of the AP
  - save\r

- - Action: Saves any WiFi changes to the AP EEPROM
- reboot wifi\r
  - Resets the WiFly. May be required for some changes to take effect!
- reset defaults\r
  - Resets all the stored defaults in the TeensyDSC
- EXIT\r
  - Action: Stop configuring the TeensyDSC and return to the previous mode