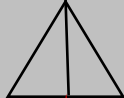
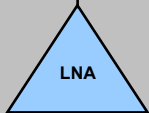


# COMMAND

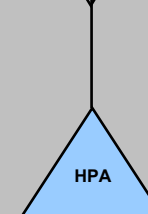
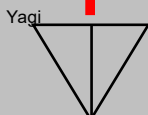
## UPLINK SYSTEM:

Frequency: 145.90 MHz

R = 1200bps



Dipole



Transmitter

Power at receiver:

-92.3 dBm

Receiver sensitivity:

-98.0 dBm

Link Margin: 5.7 dB

Ltotal line = 1.96 dB

### Receive Antenna

GR = 2.2 dBi

Polarization: RHCP

Lp = 143.1 dB

Total Link Losses:

153.6 dB

EIRP<sub>gs</sub> = 31.1 dBW

GT = 13.2 dBi

Polarization: RHCP

### Transmit Antenna

Ltotal line = 2.12 dB

P<sub>Tx</sub> = 100.0 watts

Modulation Method:

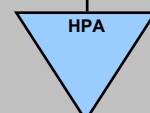
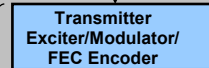
1200bps AFSK

# TELEMETRY

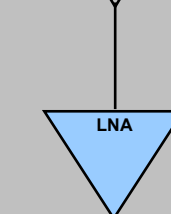
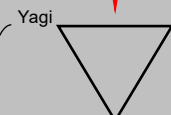
## DOWNLINK SYSTEM:

Frequency: 435.28 MHz

R = 1200 bps



Dipole



Receiver

Modulation Method:

G3RUH FSK

P<sub>Tx</sub> = 0.5 watts

Ltotal line = 0.5 dB

### Transmit Antenna

GT = 2.2 dBi

Polarization: Linear

EIRP<sub>s/c</sub> = -1.4 dBW

Total Link Losses:

161.1 dB

Lp = 152.6 dB

GR = 16.0 dBi

Polarization: RHCP

### Receive Antenna

Ltotal = 1.5 dB

Power at receiver:

-118.0 dBm

Receiver sensitivity:

-124.0 dBm

Link Margin: 6.0 dB