Roverbus 2012 Communications Network

FreeWave Radio:
All incoming commands
All outgoing status data

GPS Receiver:
- GPS Data Strings

FreeWave

GPS Rx

L Bogie Control

Motor Control Bus:
- Set Speed
- Get Speed
- Get Angle
- Set Angle
- Get Status
- Health

115.2k Full RS-485

38.4k 3.3V TTL

Arm Controllers:
- Set Joint Pos.
- Get Joint Pos.
- AX-12 Set
- AX-12 Get
- End-Effector Cmds
- Sensor Data
- Joint Health
- High-Res Cam Ctrl

Arm

MB

115.2k Full RS-485

115.2k Full RS-485

R Bogie Control

115.2k Full RS-485

B Bogie Control

Tripod

Video Tx

Tripod Controller:
- AX-12 Set
- AX-12 Get
- Barometer Data
- Accelerometer Data
- VISCA Interface
- Health

Video Transmitter:
- PLL Lock
- PA Temp
- PA VSWR
- MUX Control
- Video Gain
- PA Tx Power Setting
- Health