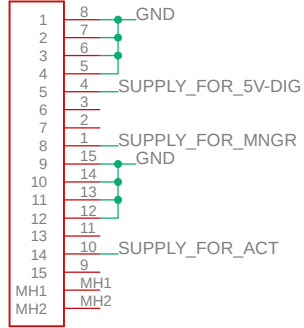
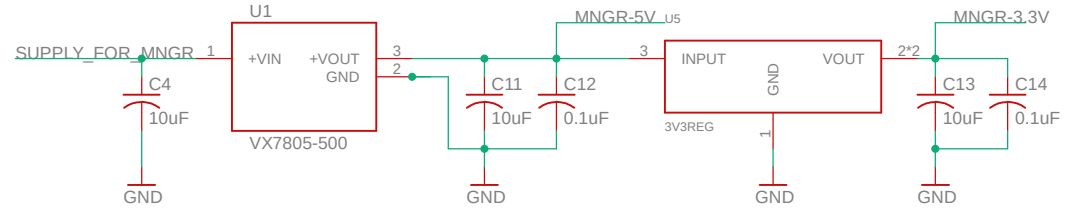


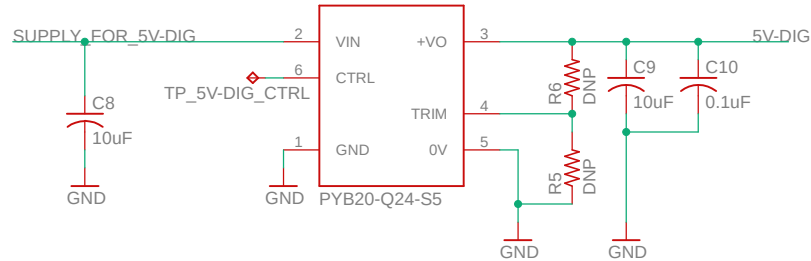
J1



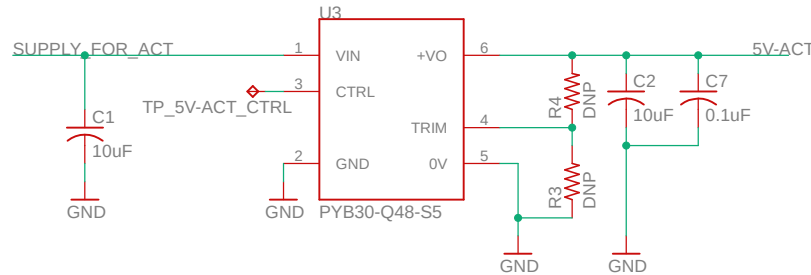
D15S24A4GV00LF



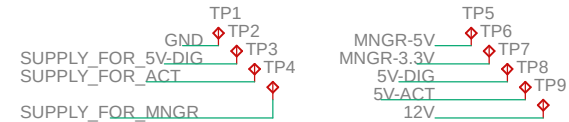
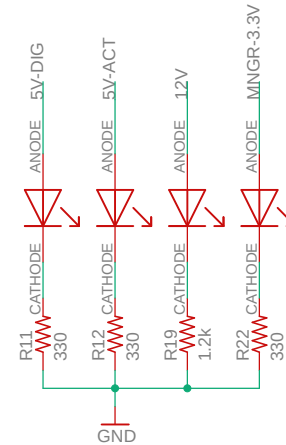
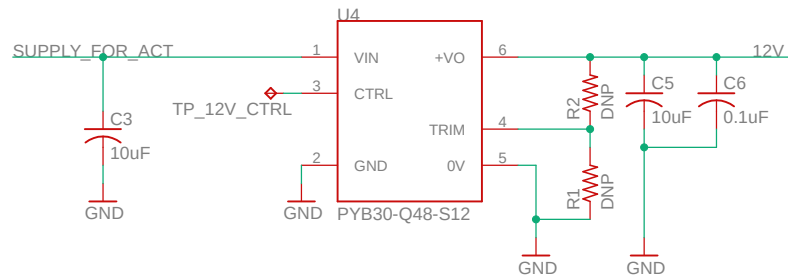
5V-Dig Supply



5V-Act Supply



12V Supply



- H1 MOUNT-HOLE3.0
- H2 MOUNT-HOLE3.0
- H3 MOUNT-HOLE3.0
- H4 MOUNT-HOLE3.0
- H6 MOUNT-HOLE3.0

Graham Braly
Mark Gilliland

RockSat-X: Mines

TITLE: PowerManagementSchem

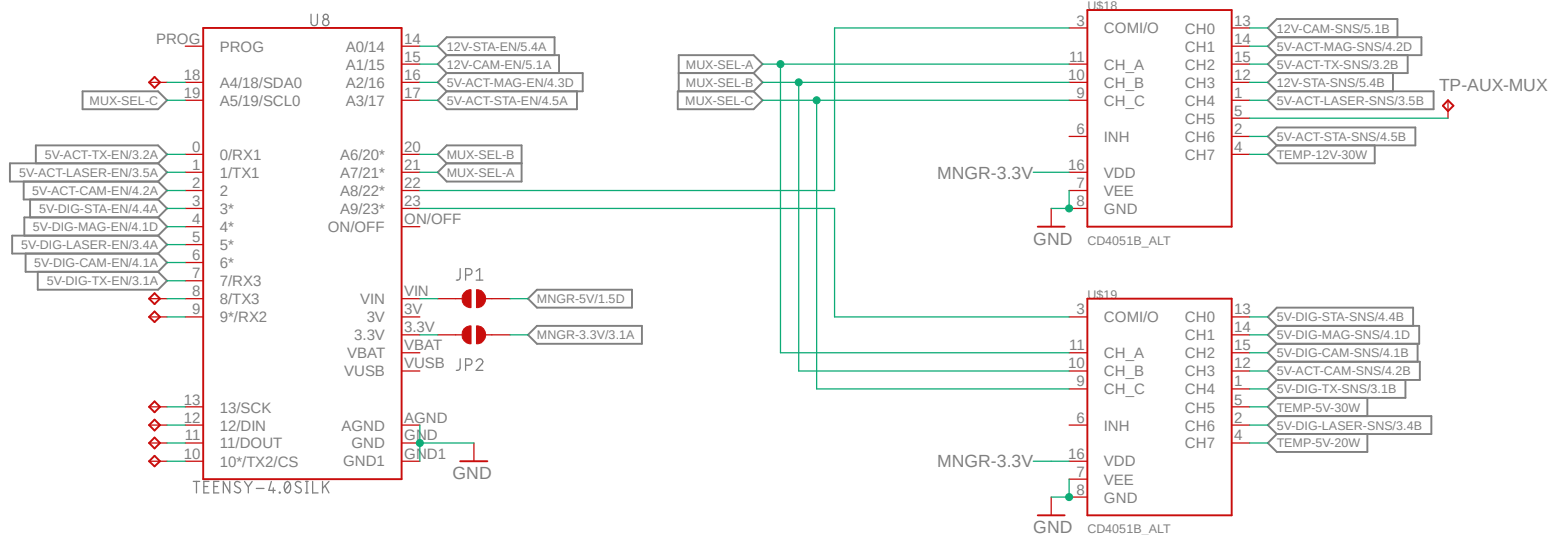
Document Number:

REV:
1

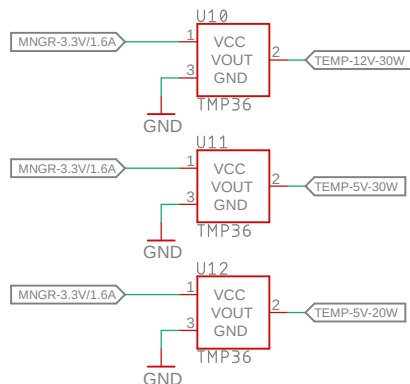
Date: 2/10/2020 9:06 PM

Sheet: 1/5

Microcontroller and MUX Connections



DCDC Temperature Monitors



Graham Braly
Mark Gilliland

RockSat-X: Mines

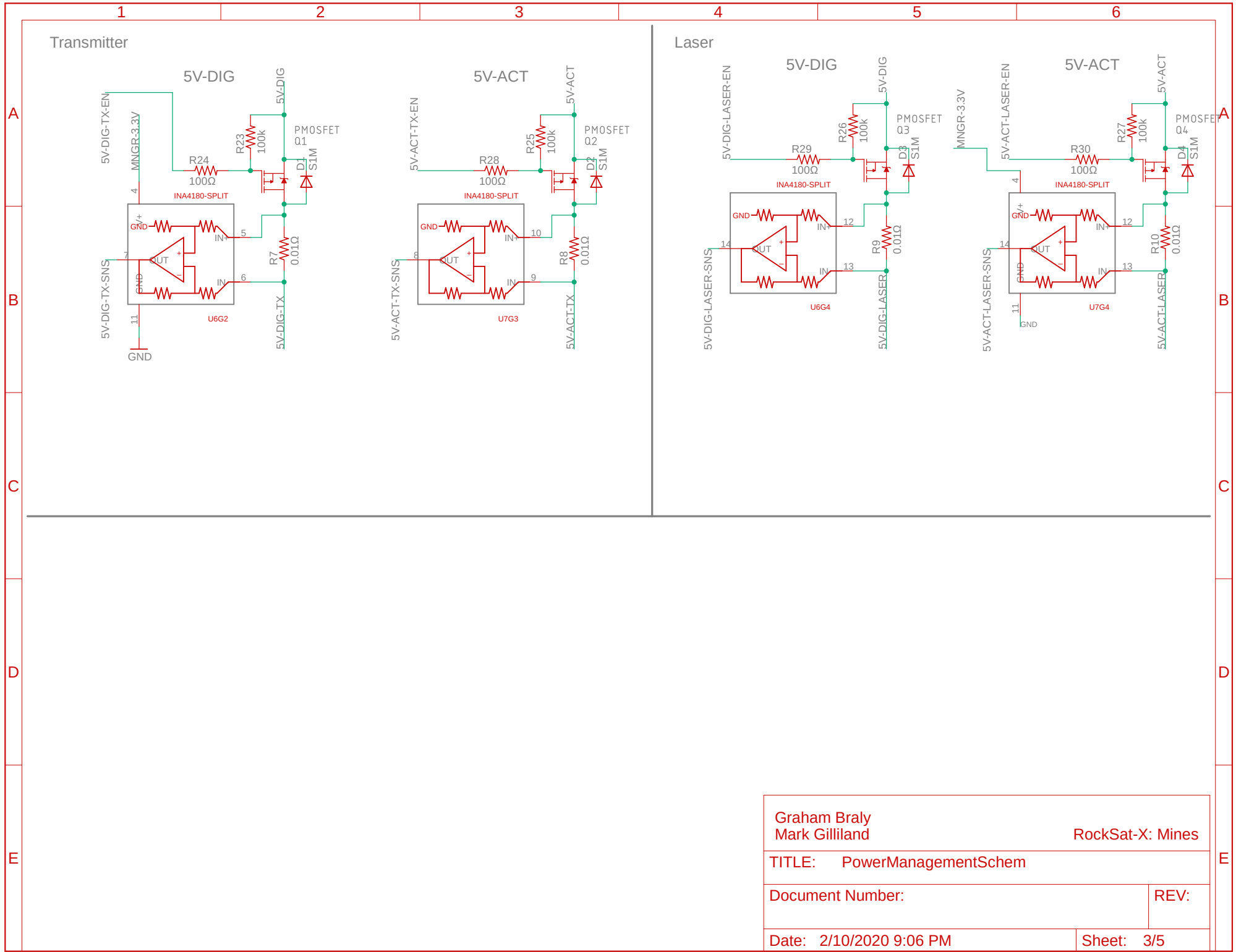
TITLE: PowerManagementSchem

Document Number:

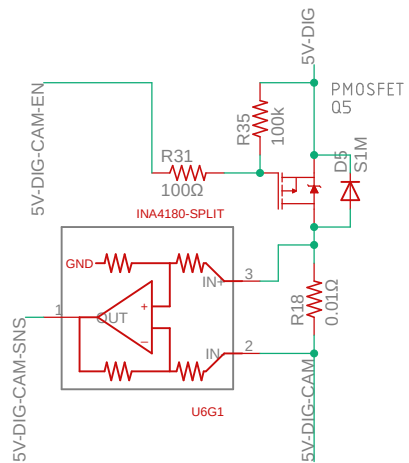
REV:

Date: 2/10/2020 9:06 PM

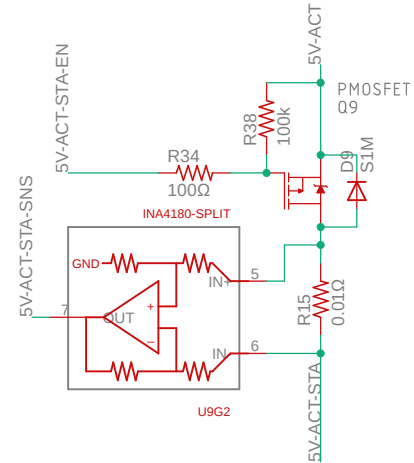
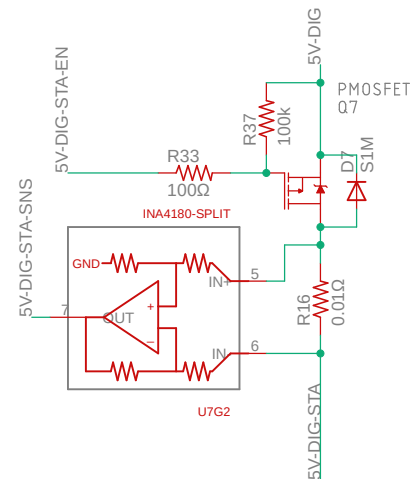
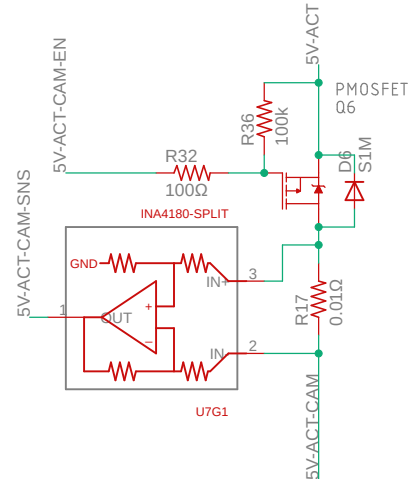
Sheet: 2/5



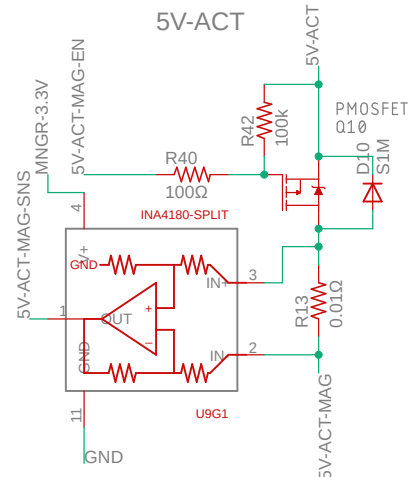
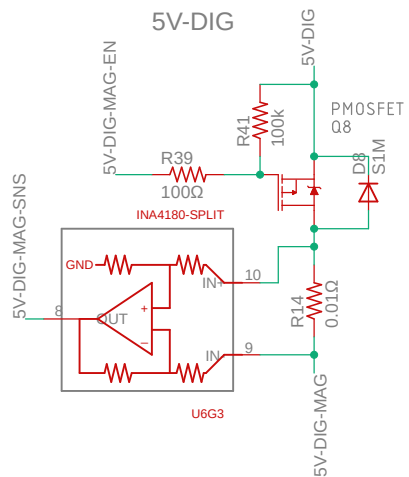
Boom Camera



Static



Magnet Experiment



Graham Braly
Mark Gilliland

RockSat-X: Mines

TITLE: PowerManagementSchem

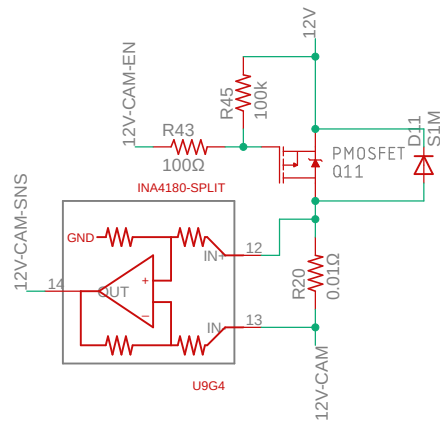
Document Number:

REV:

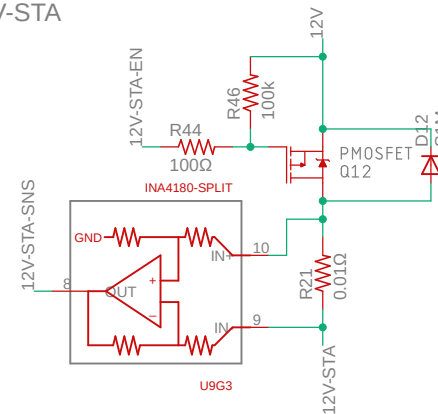
Date: 2/10/2020 9:06 PM

Sheet: 4/5

12V Control 12V-CAM



12V-STA



182-025-213R531

1	LASER-UART-1
2	LASER-UART-2
3	ANT-BUSY
4	LASER-UART-4
5	LASER-UART-5
6	LASER-I2C-SDA
7	LASER-I2C-SCL
8	STATIC-I2C-SDA
9	STATIC-I2C-SCL
10	MAGNET-I2C-SDA
11	MAGNET-I2C-SCL
12	BOOM-I2C-SDA
13	BOOM-I2C-SCL
14	ANT-MOSI
15	ANT-MISO
16	ANT-SCK
17	ANT-SS
18	CAM-USB P
19	CAM-USB N
20	GND/4.3E
21	5V-DIG-LASER/3.5B
22	5V-DIG-STA/4.5B
23	5V-DIG-MAG/4.2D
24	5V-DIG-CAM/4.2B
25	5V-DIG-TX/3.2B

Note: Routing USB on PCB for signal integrity

1	LASER-UART-1	2	ANT-MOSI
3	LASER-UART-2	4	ANT-MISO
5	ANT-BUSY	6	ANT-SCK
7	LASER-UART-4	8	ANT-SS
9	LASER-UART-5	10	LASER-I2C-SDA
11	LASER-I2C-SCL	12	STATIC-I2C-SDA
13	MAGNET-I2C-SDA	14	STATIC-I2C-SCL
15	CAM-USB P	16	MAGNET-I2C-SCL
17	CAM-USB N	18	BOOM-I2C-SDA
19		20	BOOM-I2C-SCL

Note: Ensure that USB traces are added

1	ANT-MOSI	2	LASER-UART-1
3	ANT-MISO	4	LASER-UART-2
5	ANT-SCK	6	ANT-BUSY
7	ANT-SS	8	LASER-UART-4
9	LASER-I2C-SDA	10	LASER-UART-5
11	STATIC-I2C-SDA	12	LASER-I2C-SCL
13	STATIC-I2C-SCL	14	MAGNET-I2C-SDA
15	MAGNET-I2C-SCL	16	USB-CAM-2 P
17	BOOM-I2C-SDA	18	USB-CAM-2 N
19	BOOM-I2C-SCL	20	

182-037-213R531

1	LASER-UART-1
2	LASER-UART-2
3	ANT-BUSY
4	LASER-UART-4
5	LASER-UART-5
6	LASER-I2C-SCL
7	MAGNET-I2C-SDA
8	5V-DIG-TX/3.2B
9	5V-DIG-CAM/4.2B
10	5V-DIG-LASER/3.5B
11	5V-DIG-MAG/4.2D
12	5V-DIG-STA/4.5B
13	5V-ACT-CAM/4.3B
14	5V-ACT-LASER/3.6B
15	5V-ACT-TX/3.3B
16	5V-ACT-STA/4.6B
17	5V-ACT-MAG/4.3D
18	12V-CAM
19	12V-STA
20	GND/4.3E
21	GND/4.3E
22	GND/4.3E
23	GND/4.3E
24	GND/4.3E
25	GND/4.3E
26	USB-CAM-2 N
27	USB-CAM-2 P
28	BOOM-I2C-SCL
29	BOOM-I2C-SDA
30	MAGNET-I2C-SCL
31	STATIC-I2C-SCL
32	STATIC-I2C-SDA
33	LASER-I2C-SDA
34	ANT-SS
35	ANT-SCK
36	ANT-MISO
37	ANT-MOSI
38	MH1
39	MH2
40	GND

Graham Braly
Mark Gilliland

RockSat-X: Mines

TITLE: PowerManagementSchem

Document Number:

REV:

Date: 2/10/2020 9:06 PM

Sheet: 5/5