RockSat-X Pin Usage Diagram

Team:	University of Northern Colorado

Power Pin	Function	Intended Use
1	GSE 1	Main power, base station computers and sensors come on
2	Timer Event 1 (TE-R)	State indicator for moment of launch
3	Timer Event 2 (TE-R)	State indicator for moment of launch
4	Timer Event 3 (TE-NR1)	1 minute into launch: power on probes, radios and cameras
5	GND	GND
6	GND	GND
7	GND	GND
8	GND	GND
9	GSE 2	Main power, base station computers and sensors come on
10	Timer Event 4 (TE-NR2)	Fairing separation, begin probe deployment sequence
11	Timer Event 5 (TE-NR3)	Fairing separation, begin probe deployment sequence
12	GND	GND
13	GND	GND
14	GND	GND
15	GND	GND

Telemetry	Function	Intended Use
1	Analog 1	RSSI Radio 1
2	Analog 2	RSSI Radio 2
3	Analog 3	Thermistor Camera 1
4	Analog 4	Thermistor Camera 2
5	Analog 5	Thermistor Electronics Box
6	Analog 6	Ambient Light Sensor 1
7	Analog 7	Ambient Light Sensor 2
8	Analog 8	Ambient Light Sensor 3
9	Analog 9	Ambient Light Sensor 4
10	Analog 10	Ambient Light Sensor 5
11	Parallel Bit 1 (MSB)	Base Station Active (Call out)
12	Parallel Bit 2	Camera 1 Record
13	Parallel Bit 3	Camera 2 Record
14	Parallel Bit 4	Payload Checkout (Call out)
15	Parallel Bit 5	"Capsule 1" Deploy (Call out)
16	Parallel Bit 6	"Capsule 2" Deploy (Call out)
17	N/C	N/C
18	Ground	GND
19	Ground	GND
20	Parallel Bit 7	"Capsule 1" Sep (Call out)
21	Parallel Bit 8	"Capsule 2" Sep (Call out)
22	Parallel Bit 9	Power fault (Call out)
23	Parallel Bit 10	N/C
24	Parallel Bit 11	N/C
25	Parallel Bit 12	N/C
26	Parallel Bit 13	N/C
27	Parallel Bit 14	N/C
28	Parallel Bit 15	N/C
29	Parallel Bit 16 (LSB)	N/C
30	Parallel Read Strobe	N/C
31	N/C	N/C
32	RS-232 Data (TP1)	Probe Data, 19200 baud
33	RS-232 GND (TP2)	Serial GND
34	N/C	N/C
35	N/C	N/C
36	Ground	GND
37	Ground	GND