Bus Connectors

J200_2
HTEC8-160-01-L-DV-A

SEP1	1	2	SEP2
-Z_SOLAR_TLE	3	4	+X_SOLAR_TLE
-Z_SOLAR_RTN	5	6	+X_SOLAR_RTN
-Z_SOLAR_PWR	7	8	+X_SOLAR_PWR
VBURN1	9	10	VBURN2
H2-1	11	12	SEP2_RET
SEP1_RET	13	14	DIN_LED_2
LED_PWR	15	16	DIN_LED_3
H1-5	17	18	H1-6
NTC1	19	20	NTC2
H1-7	21	22	H1-8
NTC3	23	24	NTC4
H1-9	25	26	H1-10
H2-9	27	28	H2-10
H1-11	29	30	H1-12
H2-11	31	32	H2-12
H1-13	33	34	H1-14
GND	35	36	GND
RBF	37	38	RBF_RET
H2-15	39	40	H2-16
H1-17	41	42	H1-18
H2-17	43	44	H2-18
H1-19	45	46	H1-20
H2-19	47	48	H2-20
H1-21	49	50	H1-22
H2-21	51	52	H2-22
H1-23	53	54	H1-24
H2-23	55	56	H2-24
H1-25	57	58	H1-26
H2-25	59	60	H2-26
H1-27	61	62	H1-28
H2-27	63	64	H2-28
BUS_RESET	65	66	H1-30
GND	67	68	GND
H1-31	69	70	5V_USB
AGND	71	72	GND
H1-33	73	74	H1-34
H2-33	75	76	H2-34
H1-35	77	78	H1-36
H2-35	79	80	H2-36
H1-37	81	82	H1-38
H2-37	83	84	H2-38
H1-39	85	86	H1-40
H2-39	87	88	H2-40
H1-41	89	90	H1-42
H2-41	91	92	H2-42
H1-43	93	94	H1-44
H2-43	95	96	H2-44
H1-45	97	98	H1-46
H2-45	99	100	H2-46
SELF_TEST	101	102	H1-48
GND	103	104	GND
H1-49	105	106	H1-50
H2-49	107	108	H2-50
H1-51	109	110	H1-52
SEP3_RET	111	112	SEP4_RET
+Y_SOLAR_TLE	113	114	-X_SOLAR_TLE
+Y_SOLAR_RTN	115	116	-X_SOLAR_RTN
+Y_SOLAR_PWR	117	118	-X_SOLAR_PWR
SEP3	119	120	SEP4

J200_4
HTEC8-160-01-L-DV-A

SEP1	1	2	SEP2
-Z_SOLAR_TLE	3	4	+X_SOLAR_TLE
-Z_SOLAR_RTN	5	6	+X_SOLAR_RTN
-Z_SOLAR_PWR	7	8	+X_SOLAR_PWR
VBURN1	9	10	VBURN2
H2-1	11	12	SEP2_RET
SEP1_RET	13	14	DIN_LED_4
LED_PWR	15	16	DIN_LED_5
H1-5	17	18	H1-6
NTC1	19	20	NTC2
H1-7	21	22	H1-8
NTC3	23	24	NTC4
H1-9	25	26	H1-10
H2-9	27	28	H2-10
H1-11	29	30	H1-12
H2-11	31	32	H2-12
H1-13	33	34	H1-14
GND	35	36	GND
RBF	37	38	RBF_RET
H2-15	39	40	H2-16
H1-17	41	42	H1-18
H2-17	43	44	H2-18
H1-19	45	46	H1-20
H2-19	47	48	H2-20
H1-21	49	50	H1-22
H2-21	51	52	H2-22
H1-23	53	54	H1-24
H2-23	55	56	H2-24
H1-25	57	58	H1-26
H2-25	59	60	H2-26
H1-27	61	62	H1-28
H2-27	63	64	H2-28
BUS_RESET	65	66	H1-30
GND	67	68	GND
H1-31	69	70	5V_USB
AGND	71	72	GND
H1-33	73	74	H1-34
H2-33	75	76	H2-34
H1-35	77	78	H1-36
H2-35	79	80	H2-36
H1-37	81	82	H1-38
H2-37	83	84	H2-38
H1-39	85	86	H1-40
H2-39	87	88	H2-40
H1-41	89	90	H1-42
H2-41	91	92	H2-42
H1-43	93	94	H1-44
H2-43	95	96	H2-44
H1-45	97	98	H1-46
H2-45	99	100	H2-46
SELF_TEST	101	102	H1-48
GND	103	104	GND
H1-49	105	106	H1-50
H2-49	107	108	H2-50
H1-51	109	110	H1-52
SEP3_RET	111	112	SEP4_RET
+Y_SOLAR_TLE	113	114	-X_SOLAR_TLE
+Y_SOLAR_RTN	115	116	-X_SOLAR_RTN
+Y_SOLAR_PWR	117	118	-X_SOLAR_PWR
SEP3	119	120	SEP4

J200_6
HTEC8-160-01-L-DV-A

SEP1	1	2	SEP2
-Z_SOLAR_TLE	3	4	+X_SOLAR_TLE
-Z_SOLAR_RTN	5	6	+X_SOLAR_RTN
-Z_SOLAR_PWR	7	8	+X_SOLAR_PWR
VBURN1	9	10	VBURN2
H2-1	11	12	SEP2_RET
SEP1_RET	13	14	DIN_LED_6
LED_PWR	15	16	DIN_LED_7
H1-5	17	18	H1-6
NTC1	19	20	NTC2
H1-7	21	22	H1-8
NTC3	23	24	NTC4
H1-9	25	26	H1-10
H2-9	27	28	H2-10
H1-11	29	30	H1-12
H2-11	31	32	H2-12
H1-13	33	34	H1-14
GND	35	36	GND
RBF	37	38	RBF_RET
H2-15	39	40	H2-16
H1-17	41	42	H1-18
H2-17	43	44	H2-18
H1-19	45	46	H1-20
H2-19	47	48	H2-20
H1-21	49	50	H1-22
H2-21	51	52	H2-22
H1-23	53	54	H1-24
H2-23	55	56	H2-24
H1-25	57	58	H1-26
H2-25	59	60	H2-26
H1-27	61	62	H1-28
H2-27	63	64	H2-28
BUS_RESET	65	66	H1-30
GND	67	68	GND
H1-31	69	70	5V_USB
AGND	71	72	GND
H1-33	73	74	H1-34
H2-33	75	76	H2-34
H1-35	77	78	H1-36
H2-35	79	80	H2-36
H1-37	81	82	H1-38
H2-37	83	84	H2-38
H1-39	85	86	H1-40
H2-39	87	88	H2-40
H1-41	89	90	H1-42
H2-41	91	92	H2-42
H1-43	93	94	H1-44
H2-43	95	96	H2-44
H1-45	97	98	H1-46
H2-45	99	100	H2-46
SELF_TEST	101	102	H1-48
GND	103	104	GND
H1-49	105	106	H1-50
H2-49	107	108	H2-50
H1-51	109	110	H1-52
SEP3_RET	111	112	SEP4_RET
+Y_SOLAR_TLE	113	114	-X_SOLAR_TLE
+Y_SOLAR_RTN	115	116	-X_SOLAR_RTN
+Y_SOLAR_PWR	117	118	-X_SOLAR_PWR
SEP3	119	120	SEP4

J200_8
HTEC8-160-01-L-DV-A

SEP1	1	2	SEP2
-Z_SOLAR_TLE	3	4	+X_SOLAR_TLE
-Z_SOLAR_RTN	5	6	+X_SOLAR_RTN
-Z_SOLAR_PWR	7	8	+X_SOLAR_PWR
VBURN1	9	10	VBURN2
H2-1	11	12	SEP2_RET
SEP1_RET	13	14	DIN_LED_8
LED_PWR	15	16	DIN_LED_BP
H1-5	17	18	H1-6
NTC1	19	20	NTC2
H1-7	21	22	H1-8
NTC3	23	24	NTC4
H1-9	25	26	H1-10
H2-9	27	28	H2-10
H1-11	29	30	H1-12
H2-11	31	32	H2-12
H1-13	33	34	H1-14
GND	35	36	GND
RBF	37	38	RBF_RET
H2-15	39	40	H2-16
H1-17	41	42	H1-18
H2-17	43	44	H2-18
H1-19	45	46	H1-20
H2-19	47	48	H2-20
H1-21	49	50	H1-22
H2-21	51	52	H2-22
H1-23	53	54	H1-24
H2-23	55	56	H2-24
H1-25	57	58	H1-26
H2-25	59	60	H2-26
H1-27	61	62	H1-28
H2-27	63	64	H2-28
BUS_RESET	65	66	H1-30
GND	67	68	GND
H1-31	69	70	5V_USB
AGND	71	72	GND
H1-33	73	74	H1-34
H2-33	75	76	H2-34
H1-35	77	78	H1-36
H2-35	79	80	H2-36
H1-37	81	82	H1-38
H2-37	83	84	H2-38
H1-39	85	86	H1-40
H2-39	87	88	H2-40
H1-41	89	90	H1-42
H2-41	91	92	H2-42
H1-43	93	94	H1-44
H2-43	95	96	H2-44
H1-45	97	98	H1-46
H2-45	99	100	H2-46
SELF_TEST	101	102	H1-48
GND	103	104	GND
H1-49	105	106	H1-50
H2-49	107	108	H2-50
H1-51	109	110	H1-52
SEP3_RET	111	112	SEP4_RET
+Y_SOLAR_TLE	113	114	-X_SOLAR_TLE
+Y_SOLAR_RTN	115	116	-X_SOLAR_RTN
+Y_SOLAR_PWR	117	118	-X_SOLAR_PWR
SEP3	119	120	SEP4

J200_1
HTEC8-160-01-L-DV-A

SEP1	1	2	SEP2
-Z_SOLAR_TLE	3	4	+X_SOLAR_TLE
-Z_SOLAR_RTN	5	6	+X_SOLAR_RTN
-Z_SOLAR_PWR	7	8	+X_SOLAR_PWR
VBURN1	9	10	VBURN2
H2-1	11	12	SEP2_RET
SEP1_RET	13	14	DIN_LED_1
LED_PWR	15	16	DIN_LED_2
H1-5	17	18	H1-6
NTC1	19	20	NTC2
H1-7	21	22	H1-8
NTC3	23	24	NTC4
H1-9	25	26	H1-10
H2-9	27	28	H2-10
H1-11	29	30	H1-12
H2-11	31	32	H2-12
H1-13	33	34	H1-14
GND	35	36	GND
RBF	37	38	RBF_RET
H2-15	39	40	H2-16
H1-17	41	42	H1-18
H2-17	43	44	H2-18
H1-19	45	46	H1-20
H2-19	47	48	H2-20
H1-21	49	50	H1-22
H2-21	51	52	H2-22
H1-23	53	54	H1-24
H2-23	55	56	H2-24
H1-25	57	58	H1-26
H2-25	59	60	H2-26
H1-27	61	62	H1-28
H2-27	63	64	H2-28
BUS_RESET	65	66	H1-30
GND	67	68	GND
H1-31	69	70	5V_USB
AGND	71	72	GND
H1-33	73	74	H1-34
H2-33	75	76	H2-34
H1-35	77	78	H1-36
H2-35	79	80	H2-36
H1-37	81	82	H1-38
H2-37	83	84	H2-38
H1-39	85	86	H1-40
H2-39	87	88	H2-40
H1-41	89	90	H1-42
H2-41	91	92	H2-42
H1-43	93	94	H1-44
H2-43	95	96	H2-44
H1-45	97	98	H1-46
H2-45	99	100	H2-46
SELF_TEST	101	102	H1-48
GND	103	104	GND
H1-49	105	106	H1-50
H2-49	107	108	H2-50
H1-51	109	110	H1-52
SEP3_RET	111	112	SEP4_RET
+Y_SOLAR_TLE	113	114	-X_SOLAR_TLE
+Y_SOLAR_RTN	115	116	-X_SOLAR_RTN
+Y_SOLAR_PWR	117	118	-X_SOLAR_PWR
SEP3	119	120	SEP4

J200_3
HTEC8-160-01-L-DV-A

SEP1	1	2	SEP2
-Z_SOLAR_TLE	3	4	+X_SOLAR_TLE
-Z_SOLAR_RTN	5	6	+X_SOLAR_RTN
-Z_SOLAR_PWR	7	8	+X_SOLAR_PWR
VBURN1	9	10	VBURN2
H2-1	11	12	SEP2_RET
SEP1_RET	13	14	DIN_LED_3
LED_PWR	15	16	DIN_LED_4
H1-5	17	18	H1-6
NTC1	19	20	NTC2
H1-7	21	22	H1-8
NTC3	23	24	NTC4
H1-9	25	26	H1-10
H2-9	27	28	H2-10
H1-11	29	30	H1-12
H2-11	31	32	H2-12
H1-13	33	34	H1-14
GND	35	36	GND
RBF	37	38	RBF_RET
H2-15	39	40	H2-16
H1-17	41	42	H1-18
H2-17	43	44	H2-18
H1-19	45	46	H1-20
H2-19	47	48	H2-20
H1-21	49	50	H1-22
H2-21	51	52	H2-22
H1-23	53	54	H1-24
H2-23	55	56	H2-24
H1-25	57	58	H1-26
H2-25	59	60	H2-26
H1-27	61	62	H1-28
H2-27	63	64	H2-28
BUS_RESET	65	66	H1-30
GND	67	68	GND
H1-31	69	70	5V_USB
AGND	71	72	GND
H1-33	73	74	H1-34
H2-33	75	76	H2-34
H1-35	77	78	H1-36
H2-35	79	80	H2-36
H1-37	81	82	H1-38
H2-37	83	84	H2-38
H1-39	85	86	H1-40
H2-39	87	88	H2-40
H1-41	89	90	H1-42
H2-41	91	92	H2-42
H1-43	93	94	H1-44
H2-43	95	96	H2-44
H1-45	97	98	H1-46
H2-45	99	100	H2-46
SELF_TEST	101	102	H1-48
GND	103	104	GND
H1-49	105	106	H1-50
H2-49	107	108	H2-50
H1-51	109	110	H1-52
SEP3_RET	111	112	SEP4_RET
+Y_SOLAR_TLE	113	114	-X_SOLAR_TLE
+Y_SOLAR_RTN	115	116	-X_SOLAR_RTN
+Y_SOLAR_PWR	117	118	-X_SOLAR_PWR
SEP3	119	120	SEP4

J200_5
HTEC8-160-01-L-DV-A

SEP1	1	2	SEP2
-Z_SOLAR_TLE	3	4	+X_SOLAR_TLE
-Z_SOLAR_RTN	5	6	+X_SOLAR_RTN
-Z_SOLAR_PWR	7	8	+X_SOLAR_PWR
VBURN1	9	10	VBURN2
H2-1	11	12	SEP2_RET
SEP1_RET	13	14	DIN_LED_5
LED_PWR	15	16	DIN_LED_6
H1-5	17	18	H1-6
NTC1	19	20	NTC2
H1-7	21	22	H1-8
NTC3	23	24	NTC4
H1-9	25	26	H1-10
H2-9	27	28	H2-10
H1-11	29	30	H1-12
H2-11	31	32	H2-12
H1-13	33	34	H1-14
GND	35	36	GND
RBF	37	38	RBF_RET
H2-15	39	40	H2-16
H1-17	41	42	H1-18
H2-17	43	44	H2-18
H1-19	45	46	H1-20
H2-19	47	48	H2-20
H1-21	49	50	H1-22
H2-21	51	52	H2-22
H1-23	53	54	H1-24
H2-23	55	56	H2-24
H1-25	57	58	H1-26
H2-25	59	60	H2-26
H1-27	61	62	H1-28
H2-27	63	64	H2-28
BUS_RESET	65	66	H1-30
GND	67	68	GND
H1-31	69	70	5V_USB
AGND	71	72	GND
H1-33	73	74	H1-34
H2-33	75	76	H2-34
H1-35	77	78	H1-36
H2-35	79	80	H2-36
H1-37	81	82	H1-38
H2-37	83	84	H2-38
H1-39	85	86	H1-40
H2-39	87	88	H2-40
H1-41	89	90	H1-42
H2-41	91	92	H2-42
H1-43	93	94	H1-44
H2-43	95	96	H2-44
H1-45	97	98	H1-46
H2-45	99	100	H2-46
SELF_TEST	101	102	H1-48
GND	103	104	GND
H1-49	105	106	H1-50
H2-49	107	108	H2-50
H1-51	109	110	H1-52
SEP3_RET	111	112	SEP4_RET
+Y_SOLAR_TLE	113	114	-X_SOLAR_TLE
+Y_SOLAR_RTN	115	116	-X_SOLAR_RTN
+Y_SOLAR_PWR	117	118	-X_SOLAR_PWR
SEP3	119	120	SEP4

J200_7
HTEC8-160-01-L-DV-A

SEP1	1	2	SEP2
-Z_SOLAR_TLE	3	4	+X_SOLAR_TLE
-Z_SOLAR_RTN	5	6	+X_SOLAR_RTN
-Z_SOLAR_PWR	7	8	+X_SOLAR_PWR
VBURN1	9	10	VBURN2
H2-1	11	12	SEP2_RET
SEP1_RET	13	14	DIN_LED_7
LED_PWR	15	16	DIN_LED_8
H1-5	17	18	H1-6
NTC1	19	20	NTC2
H1-7	21	22	H1-8
NTC3	23	24	NTC4
H1-9	25	26	H1-10
H2-9	27	28	H2-10
H1-11	29	30	H1-12
H2-11	31	32	H2-12
H1-13	33	34	H1-14
GND	35	36	GND
RBF	37	38	RBF_RET
H2-15	39	40	H2-16
H1-17	41	42	H1-18
H2-17	43	44	H2-18
H1-19	45	46	H1-20
H2-19	47	48	H2-20
H1-21	49	50	H1-22
H2-21	51	52	H2-22
H1-23	53	54	H1-24
H2-23	55	56	H2-24
H1-25	57	58	H1-26
H2-25	59	60	H2-26
H1-27	61	62	H1-28
H2-27	63	64	H2-28
BUS_RESET	65	66	H1-30
GND	67	68	GND
H1-31	69	70	5V_USB
AGND	71	72	GND
H1-33	73	74	H1-34
H2-33	75	76	H2-34
H1-35	77	78	H1-36
H2-35	79	80	H2-36
H1-37	81	82	H1-38
H2-37	83	84	H2-38
H1-39	85	86	H1-40
H2-39	87	88	H2-40
H1-41	89	90	H1-42
H2-41	91	92	H2-42
H1-43	93	94	H1-44
H2-43	95	96	H2-44
H1-45	97	98	H1-46
H2-45	99	100	H2-46
SELF_TEST	101	102	H1-48
GND	103	104	GND
H1-49	105	106	H1-50
H2-49	107	108	H2-50
H1-51	109	110	H1-52
SEP3_RET	111	112	SEP4_RET
+Y_SOLAR_TLE	113	114	-X_SOLAR_TLE
+Y_SOLAR_RTN	115	116	-X_SOLAR_RTN
+Y_SOLAR_PWR	117	118	-X_SOLAR_PWR
SEP3	119	120	SEP4

BACKPLANE CONNECTORS ARE NUMBERED FROM BOTTOM OF STACK
CONTACT RATING 2.8A PER PIN

COPPER THICKNESS: 2OZ
TRACE WIDTH: 0.5mm VIA SIZE: 0.2mm DRILL, 0.5mm PAD

Solar Connectors

J105
+X SOLAR PANEL

1	+X_SOLAR_PWR	
2	+X_SOLAR_RTN	
3	+X_SOLAR_TLE	
4	CHS	
5	+X_SOLAR_PWR	
6	+X_SOLAR_RTN	

J106
-X SOLAR PANEL

1	-X_SOLAR_PWR	
2	-X_SOLAR_RTN	
3	-X_SOLAR_TLE	
4	CHS	
5	-X_SOLAR_PWR	
6	-X_SOLAR_RTN	

J107
+Y SOLAR PANEL

1	+Y_SOLAR_PWR	
2	+Y_SOLAR_RTN	
3	+Y_SOLAR_TLE	
4	CHS	
5	+Y_SOLAR_PWR	
6	+Y_SOLAR_RTN	

J108
-Z SOLAR PANEL

1	-Z_SOLAR_PWR	
2	-Z_SOLAR_RTN	
3	-Z_SOLAR_TLE	
4	CHS	
5	-Z_SOLAR_PWR	
6	-Z_SOLAR_RTN	

Mounting Holes

Six #4 Mounting Holes for
Sierra Lobo 1.5U cubesat structure.

MH100 #4
MH101 #4
MH102 #4
MH103 #4
MH104 #4
MH105 #4

C100 10nF
C101 10nF
C102 10nF
C103 10nF
C104 10nF
C105 10nF

CHS GND

User Switches

Configure pin on controller to have an internal pull up SELF_TEST input.

BUS_RESET — R112 0R — KMT031NGJLHS RESET SW100 — GND

SELF_TEST — R114 0R — KMT031NGJLHS RESET SW101 — GND

LEDs

SK6812-EC3210 (NeoPixel) LEDs.
Pull enable high at controller.
LEDs are configured in a ring,
with jumpers to bypass or terminate
the data signal.

LED Driver

LED_PWR	LED_PWR	
GND	GND	
DIN_LED_BP	DIN	DOUT — DIN_LED_BO
LED_EN	LED_EN	

File: LED_Driver.kicad_sch

DIN_LED-DOUT_LED jumpers
Install to bypass or stop data signal.

DIN_LED_BO	R101 0R		DIN_LED_1
DIN_LED_1	R102 0R		DIN_LED_2
DIN_LED_2	R103 0R		DIN_LED_3
DIN_LED_3	R104 0R		DIN_LED_4
DIN_LED_4	R105 0R		DIN_LED_5
DIN_LED_5	R106 0R		DIN_LED_6
DIN_LED_6	R107 0R		DIN_LED_7
DIN_LED_7	R108 0R		DIN_LED_8
DIN_LED_8	R109 0R		DIN_LED_BP

DNP

CHS, GND Jumper

CHS — 0R R100 — GND

Seperation Switch Connectors

J103
SEP1 & SEP2

1	SEP1	
2	SEP1_RET	
3	SEP2	
4	SEP2_RET	

J104
SEP3 & SEP4

1	SEP3	
2	SEP3_RET	
3	SEP4	
4	SEP4_RET	

NTC Connectors

J109
NTC1

1	NTC1	
2	GND	

J110
NTC2

1	NTC2	
2	GND	

J111
NTC3

1	NTC3	
2	GND	

J112
NTC4

1	NTC4	
2	GND	

Burn Wire Connectors

J113
BURN1

1		
2	VBURN1	
3	GND	
4		

J114
BURN2

1		
2	VBURN2	
3	GND	
4		

RBF Jumper

P100
RBF Terminal
1 — RBF

P101
RBF_RET Terminal
1 — RBF_RET

RBF Jumper

Breakout Connectors

Breakout connectors are only used for ground testing.
2.1A per pin.
trace width: 0.25mm
Via: 0.2mm drill, 0.5mm dia.

To connect breakout, connect male headers on rear of backplane
then connect breakout harness (Samtec SFSD-30-28-G-15.74-D-NUS)
Ensure harness is of "NUS" option for connecting to breakout.

J300
Breakout Connector

SEP1	1	2	SEP2
-Z_SOLAR_RTN	3	4	+X_SOLAR_RTN
VBURN1	5	6	VBURN2
SEP1_RET	7	8	DIN_LED_BO
H1-5	9	10	H1-6
H1-7	11	12	H1-8
H1-9	13	14	H1-10
H1-11	15	16	H1-12
H1-13	17	18	H1-14
RBF	19	20	RBF_RET
H1-17	21	22	H1-18
H1-19	23	24	H1-20
H1-21	25	26	H1-22
H1-23	27	28	H1-24
H1-25	29	30	H1-26
H1-27	31	32	H1-28
BUS_RESET	33	34	H1-30
H1-31	35	36	5V_USB
H1-33	37	38	H1-34
H1-35	39	40	H1-36
H1-37	41	42	H1-38
H1-39	43	44	H1-40
H1-41	45	46	H1-42
H1-43	47	48	H1-44
H1-45	49	50	H1-46
SELF_TEST	51	52	H1-48
H1-49	53	54	H1-50
H1-51	55	56	H1-52
+Y_SOLAR_TLE	57	58	-X_SOLAR_TLE
+Y_SOLAR_PWR	59	60	-X_SOLAR_PWR

J301
Breakout Connector

-Z_SOLAR_TLE	1	2	+X_SOLAR_TLE
-Z_SOLAR_PWR	3	4	+X_SOLAR_PWR
H2-1	5	6	SEP2_RET
LED_PWR	7	8	DIN_LED_1
NTC1	9	10	NTC2
NTC3	11	12	NTC4
H2-9	13	14	H2-10
H2-11	15	16	H2-12
GND	17	18	GND
H2-15	19	20	H2-16
H2-17	21	22	H2-18
H2-19	23	24	H2-20
H2-21	25	26	H2-22
H2-23	27	28	H2-24
H2-25	29	30	H2-26
H2-27	31	32	H2-28
GND	33	34	GND
AGND	35	36	GND
H2-33	37	38	H2-34
H2-35	39	40	H2-36
H2-37	41	42	H2-38
H2-39	43	44	H2-40
H2-41	45	46	H2-42
H2-43	47	48	H2-44
H2-45	49	50	H2-46
GND	51	52	GND
H2-49	53	54	H2-50
SEP3_RET	55	56	SEP4_RET
+Y_SOLAR_RTN	57	58	-X_SOLAR_RTN
SEP3	59	60	SEP4

BACKPLANE	todo: add burn wire connectors?	
C. Kornowski		
C. Hillis		
Sierra Lobo, Inc.		
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Size: C	Date: 2021-12-10	**Rev: A1**
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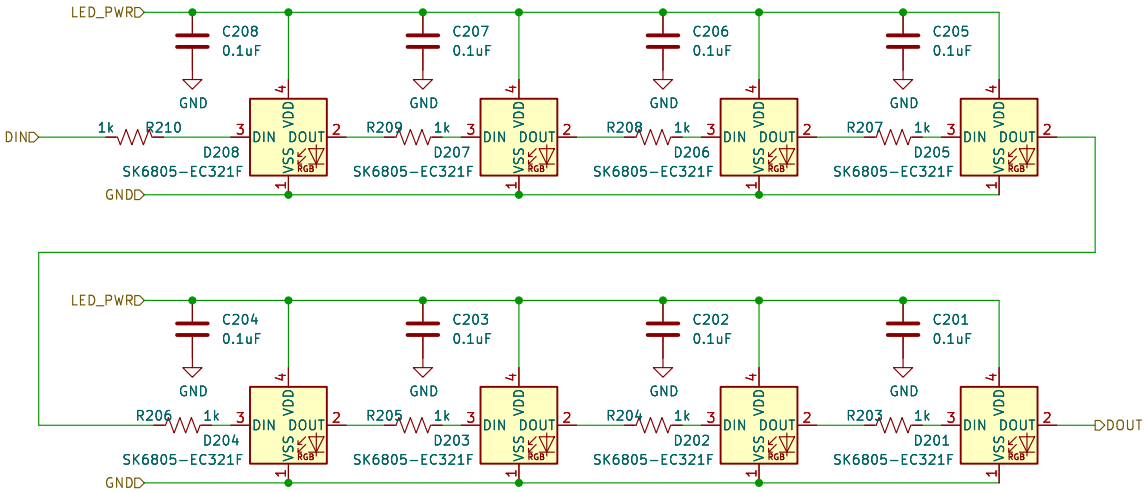
Reverse-Mounted Addressable RGB LEDs (Neopixels)

shine THROUGH the the board



C. Kornowski
C. Hillis
Sierra Lobo, Inc.

Sheet: /LED Driver/
File: LED_Driver.kicad_sch

Title: LED Driver

Size: A4	Date: 2021-12-10	**Rev: A1**
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