

## POWER AND MRAM

TITLE: UNO\_WSON.sch

Document Number:

ST MICRO\_4

REV:

Date: 1/4/2019 10:11:31 AM

Sheet: 2

# Q DESIGN SERVICES, INC.

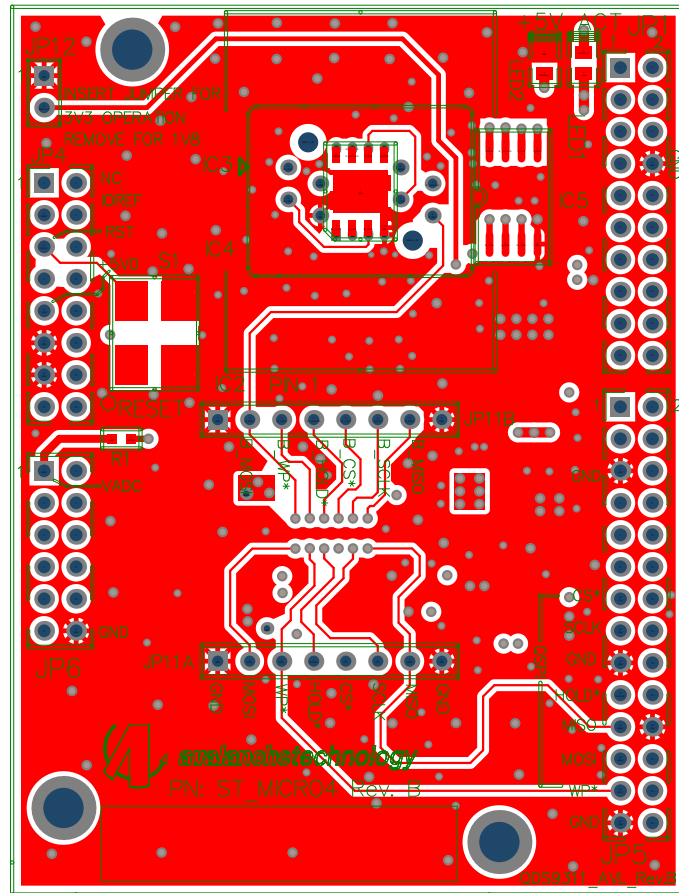
2528 QUME DRIVE SUITE13

SAN JOSE, CA 95131

TEL: 408-428-9253

FAX: 408-428-9473

EMAIL: QHO@QDESIGNSERVICES.COM



Title: ST\_MICRO4 Rev. B

Customer:

Contact:

CUST P/N#:

JOB#: QDS9311\_AVL\_Rev. B

ENG./Designer: Quoc Ho

Scale: 1 TO 1

View: TOP VIEW

DATE PLOTTED: 9/10/2020

PADMASTER

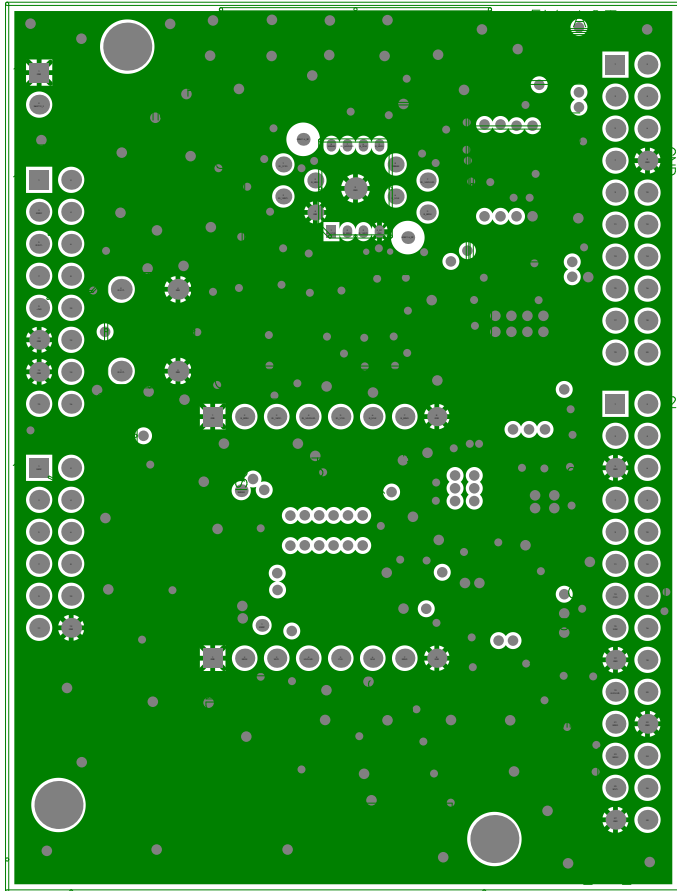
DRILLMASTER

TOP

TOP SILKSCREEN

## PROPRIETARY NOTICE

THIS DOCUMENT/FILE AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO Q DESIGN AND SHALL NOT BE DUPLICATED USED, RELEASED, OR DISCLOSED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN PERMISSION.



# Q DESIGN SERVICES, INC.

2528 QUME DRIVE SUITE13

SAN JOSE, CA 95131

TEL: 408-428-9253

FAX: 408-428-9473

EMAIL: QHO@QDESIGNSERVICES.COM

Title:	ST_MICRO4 Rev. B
Customer:	
Contact:	
CUST P/N#:	
JOB#:	QDS9311_AVL_Rev. B
ENG./Designer:	Quoc Ho
Scale:	1 TO 1
View:	TOP VIEW

DATE PLOTTED:	9/10/2020
PADMASTER	DRILLMASTER
	GND
TOP SILKSCREEN	

## PROPRIETARY NOTICE

THIS DOCUMENT/FILE AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO Q DESIGN AND SHALL NOT BE DUPLICATED USED, RELEASED, OR DISCLOSED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN PERMISSION.

# Q DESIGN SERVICES, INC.

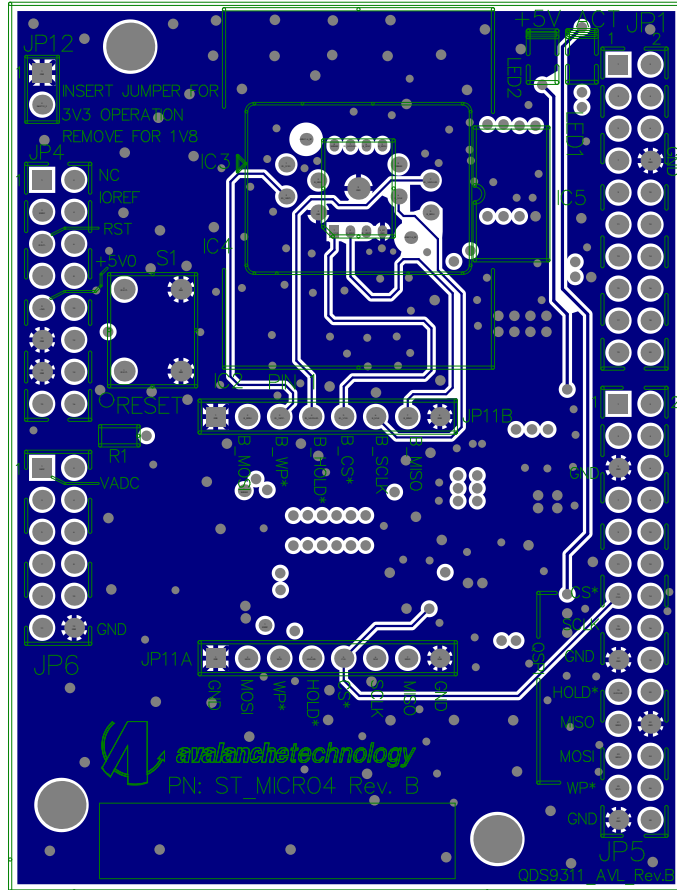
2528 QUME DRIVE SUITE13

SAN JOSE, CA 95131

TEL: 408-428-9253

FAX: 408-428-9473

EMAIL: QHO@QDESIGNSERVICES.COM



Title: ST\_MICRO4 Rev. B

Customer:

Contact:

CUST P/N#:

JOB#: QDS9311\_AVL\_Rev. B

ENG./Designer: Quoc Ho

Scale: 1 TO 1

View: TOP VIEW

DATE PLOTTED: 9/10/2020

PADMASTER

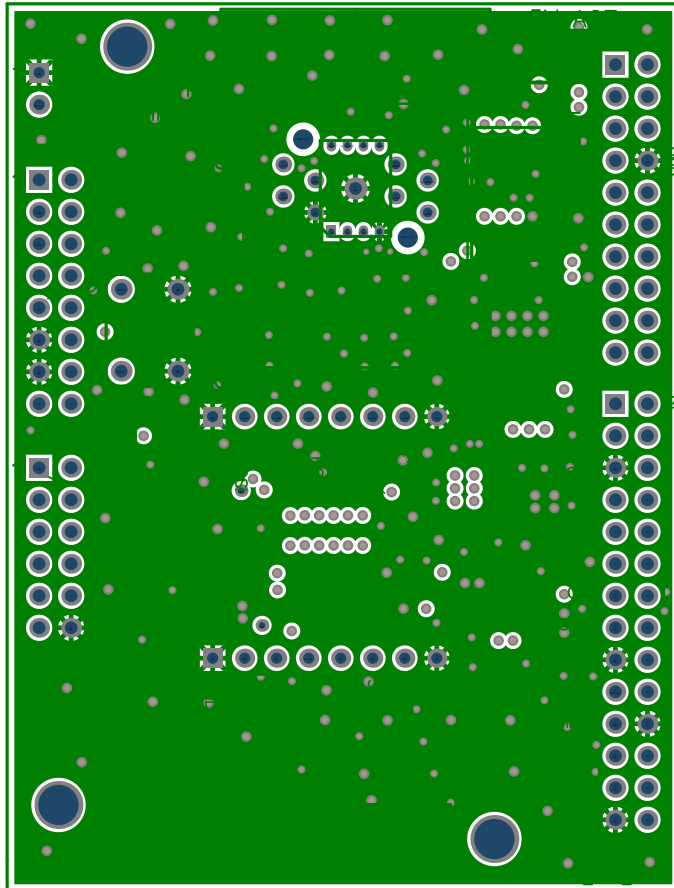
DRILLMASTER

INTERNAL1

TOP SILKSCREEN

## PROPRIETARY NOTICE

THIS DOCUMENT/FILE AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO Q DESIGN AND SHALL NOT BE DUPLICATED USED, RELEASED, OR DISCLOSED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN PERMISSION.



## Q DESIGN SERVICES, INC.

2528 QUME DRIVE SUITE13

SAN JOSE, CA 95131

TEL: 408-428-9253

FAX: 408-428-9473

EMAIL: QHO@QDESIGNSERVICES.COM

Title:	ST_MICRO4 Rev. B
Customer:	
Contact:	
CUST P/N#:	
JOB#:	QDS9311_AVL_Rev. B
ENG./Designer:	Quoc Ho
Scale:	1 TO 1
View:	TOP VIEW

DATE PLOTTED: 9/10/2020	
PADMASTER	DRILLMASTER
	GND
TOP SILKSCREEN	

### PROPRIETARY NOTICE

THIS DOCUMENT/FILE AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO Q DESIGN AND SHALL NOT BE DUPLICATED USED, RELEASED, OR DISCLOSED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN PERMISSION.

# Q DESIGN SERVICES, INC.

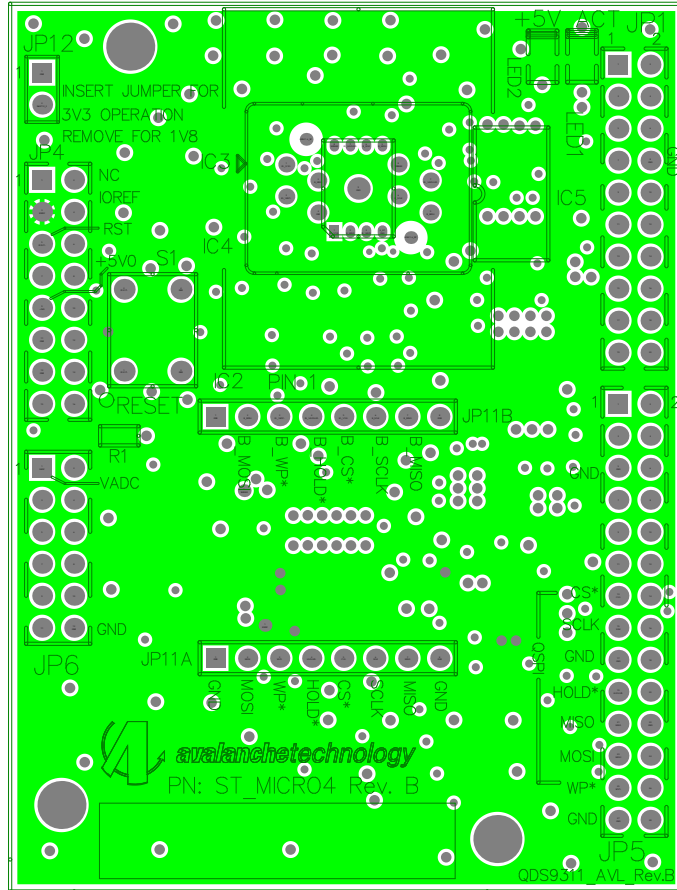
2528 QUME DRIVE SUITE13

SAN JOSE, CA 95131

TEL: 408-428-9253

FAX: 408-428-9473

EMAIL: QHO@QDESIGNSERVICES.COM



Title:	ST_MICRO4 Rev. B
Customer:	
Contact:	
CUST P/N#:	
JOB#:	QDS9311_AVL_Rev. B
ENG./Designer:	Quoc Ho
Scale:	1 TO 1
View:	TOP VIEW

DATE PLOTTED:	9/10/2020
PADMASTER	DRILLMASTER
	PWR1
TOP SILKSCREEN	

## PROPRIETARY NOTICE

THIS DOCUMENT/FILE AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO Q DESIGN AND SHALL NOT BE DUPLICATED USED, RELEASED, OR DISCLOSED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN PERMISSION.

# Q DESIGN SERVICES, INC.

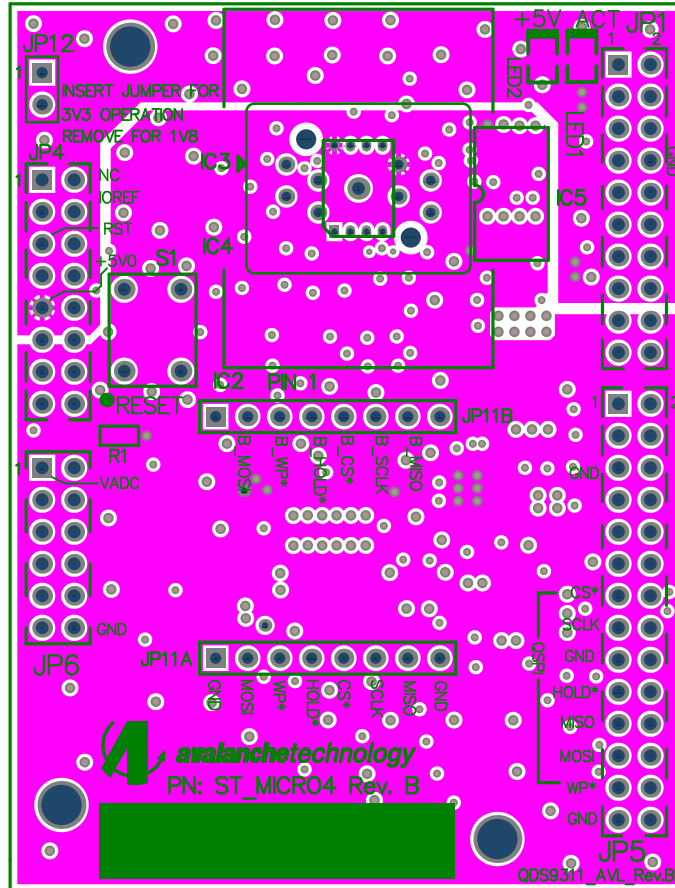
2528 QUME DRIVE SUITE13

SAN JOSE, CA 95131

TEL: 408-428-9253

FAX: 408-428-9473

EMAIL: QHO@QDESIGNSERVICES.COM



Title: ST\_MICRO4 Rev. B

Customer:

Contact:

CUST P/N#:

JOB#: QDS9311\_AVL\_Rev. B

ENG./Designer: Quoc Ho

Scale: 1 TO 1

View: TOP VIEW

DATE PLOTTED: 9/10/2020

PADMASTER

DRILLMASTER

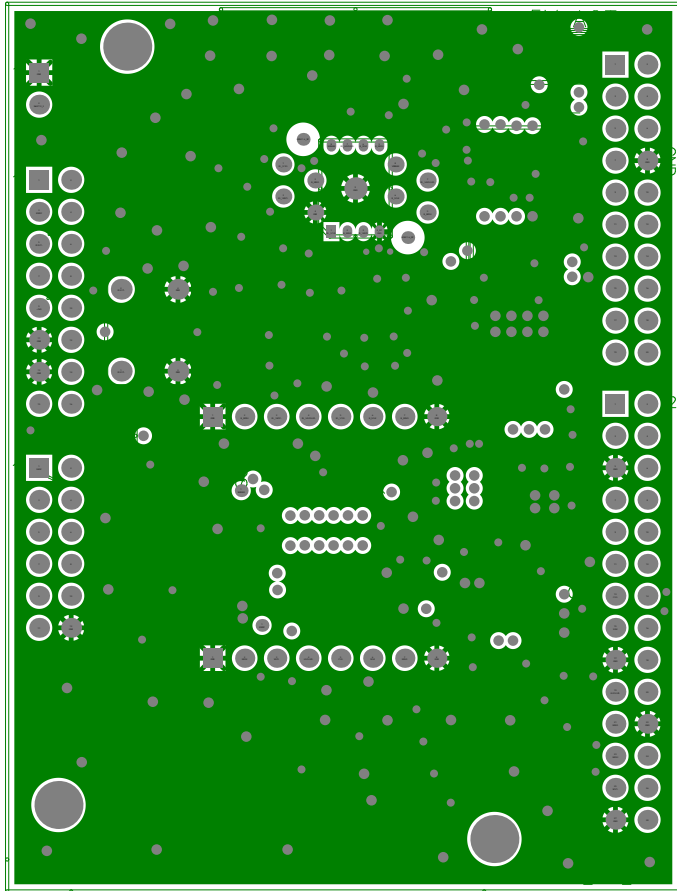
PWR2

TOP SILKSCREEN

## PROPRIETARY NOTICE

THIS DOCUMENT/FILE AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO Q DESIGN AND SHALL NOT BE DUPLICATED USED, RELEASED, OR DISCLOSED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN PERMISSION.





# Q DESIGN SERVICES, INC.

2528 QUME DRIVE SUITE13

SAN JOSE, CA 95131

TEL: 408-428-9253

FAX: 408-428-9473

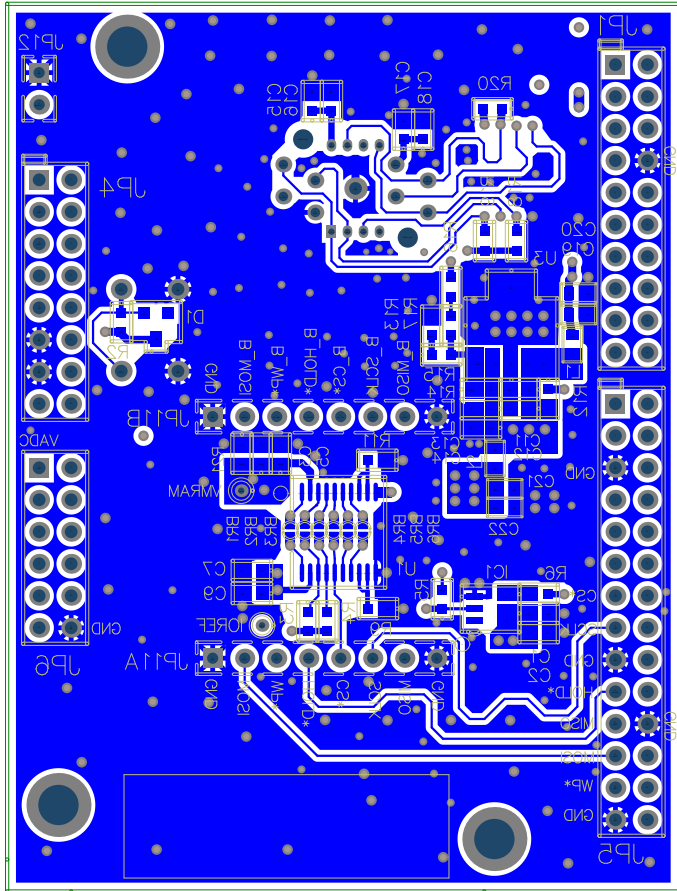
EMAIL: QHO@QDESIGNSERVICES.COM

Title:	ST_MICRO4 Rev. B
Customer:	
Contact:	
CUST P/N#:	
JOB#:	QDS9311_AVL_Rev. B
ENG./Designer:	Quoc Ho
Scale:	1 TO 1
View:	TOP VIEW

DATE PLOTTED:	9/10/2020
PADMASTER	DRILLMASTER
	GND
TOP SILKSCREEN	

## PROPRIETARY NOTICE

THIS DOCUMENT/FILE AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO Q DESIGN AND SHALL NOT BE DUPLICATED USED, RELEASED, OR DISCLOSED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN PERMISSION.



# Q DESIGN SERVICES, INC.

2528 QUME DRIVE SUITE13

SAN JOSE, CA 95131

TEL: 408-428-9253

FAX: 408-428-9473

EMAIL: QHO@QDESIGNSERVICES.COM

Title:	ST_MICRO4 Rev. B
Customer:	
Contact:	
CUST P/N#:	
JOB#:	QDS9311_AVL_Rev. B
ENG./Designer:	Quoc Ho
Scale:	1 TO 1
View:	TOP VIEW

DATE PLOTTED:	9/10/2020
PADMASTER	DRILLMASTER
	BOTTOM
	BOTTOM SILKSCREEN

## PROPRIETARY NOTICE

THIS DOCUMENT/FILE AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO Q DESIGN AND SHALL NOT BE DUPLICATED USED, RELEASED, OR DISCLOSED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN PERMISSION.

Footprint	Comment	Quantity	Designator	Part No.	Cost
BR-603	NL	6	BR1, BR2, BR3, BR4, BR5, BR6		
0603 CAPACITOR_071713	10n	7	C1, C3, C7, C11, C13, C16, C18	CL10B103KA8NNN C	\$6.62
0603 CAPACITOR_071713	1u	5	C2, C5, C9, C15, C17	CL10B105KA8NFN C	\$10.50
0603 CAPACITOR_071713	4.7u	2	C12, C14	CL10B475KQ8NO NC	\$6.08
0603	NL	4	C19, C20, C21, C22		
SOT23_012105	BAS40	1	D1	BAS40-TP	\$12.98
SOT25_030205	74LVC1G07DBVR	1	IC1	SN74LVC1G07DBV R	\$16.00
SOCKET WSON PLASTRONICS 08QN12T16050- M_020518	NO LOAD	1	IC2	08QN12T16050-M	
652_SOP-1.27_8P	AS2XXMA1G3A- SOIC8	1	IC3	208-7391-55-1902	
WSON8 6X5 MM WITH PAD_061714	NO LOAD	1	IC4	AS2XXMA1G3A- WSON	
SO8 WIDE_071205	AS2XXMA1G3A- SOIC8	1	IC5	AS2XXMA1G3A- SOIC8	
TEST POINT 40X20_010819	TP	2	IOREF, VMRAM		
2X10-HEADER	2X10_ML	1	JP1	PRT-11417	\$60.00
2X8-HEADER	2X8_ML	1	JP4	PRT-11417	\$60.00
2X14-HEADER	2X14_ML	1	JP5	PRT-11417	\$60.00
2X6 HEADER_082710	2X6_ML	1	JP6	PRT-11417	\$60.00
1X8 HEADER ARDUINO STACKABLE_010719	HEADER_8PIN	2	JP11A, JP11B		
1X2 HEADER WITH SHUNT_051914	3.3V ENABLE	1	JP12	22284360	\$36.04
0603	BLM18SG121TN1D	2	L1, L2	BLM18SG121TN1D	\$6.46
LED 0805 GREEN_032906	GREEN	1	LED1	150080GS75000	\$8.00
LED 0805 GREEN_032906	RED	1	LED2	150080RS75000	\$8.00
0603 RESISTOR_071013	33	1	R1	ERJ-3EKF33R2V	\$0.65
0603 RESISTOR_071013	22K	7	R2, R3, R4, R5, R18, R19, R20	ERJ-3EKF2202V	\$11.86
0603 RESISTOR_071013	2K	2	R6, R12	ERJ-3EKF2001V	\$2.64
0603 RESISTOR_071013	100	2	R9, R11	ERJ-3EKF1000V	\$2.64
0603 RESISTOR_071013	0	2	R13, R16	ERJ-3GEY0R00V	\$1.71
0603 RESISTOR_071013	105K, 1%	1	R14	ERJ-3EKF1053V	\$2.64
0603 RESISTOR_071013	30.9K, 1%	1	R15	ERJ-3EKF3092V	\$2.64
0603 RESISTOR_071013	28.7K, 1%	1	R17	ERJ-3EKF2872V	\$2.64
0603 RESISTOR_071013	100K	1	R21	RMCF0603FT100K	\$3.06
SWITCH TE PB 1825910-6_112915	SWRST	1	S1	1825910-6	\$4.39
TSSOP_20PIN	NO LOAD	1	U1	SN74LVC8T245PW R	\$42.12
SOT223-6 REGULATOR_010419	MCP1825T- ADJE/DC	1	U3	MCP1825T- ADJE/DC	\$19.92

