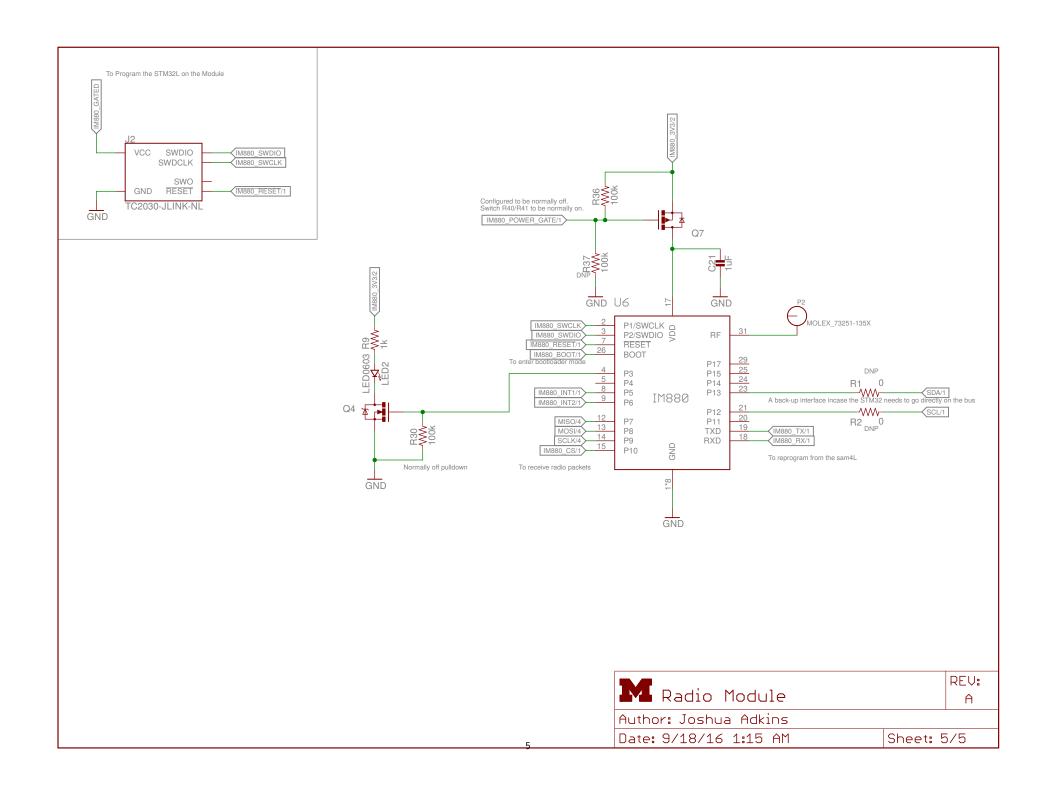
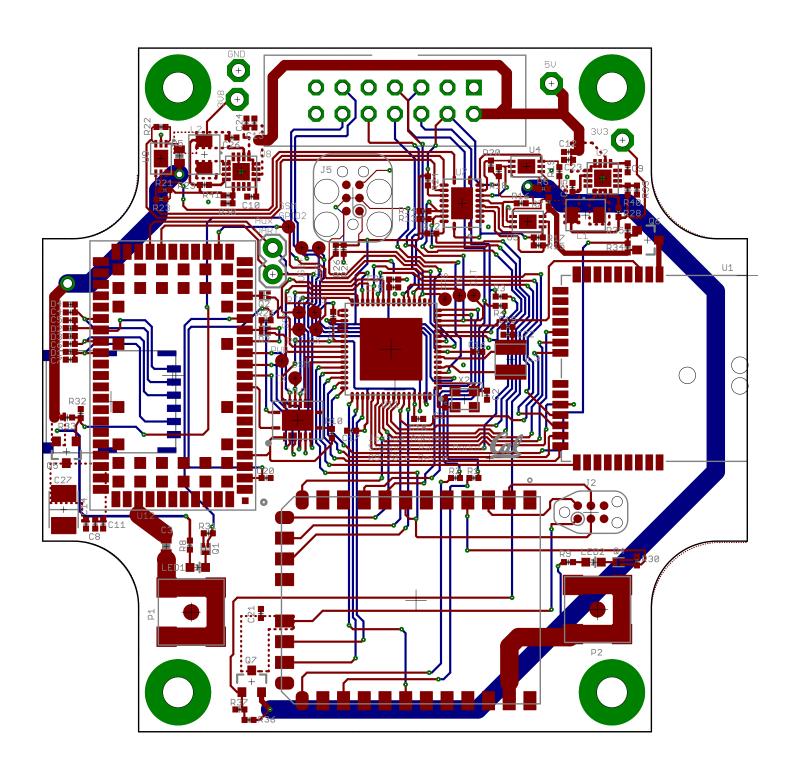
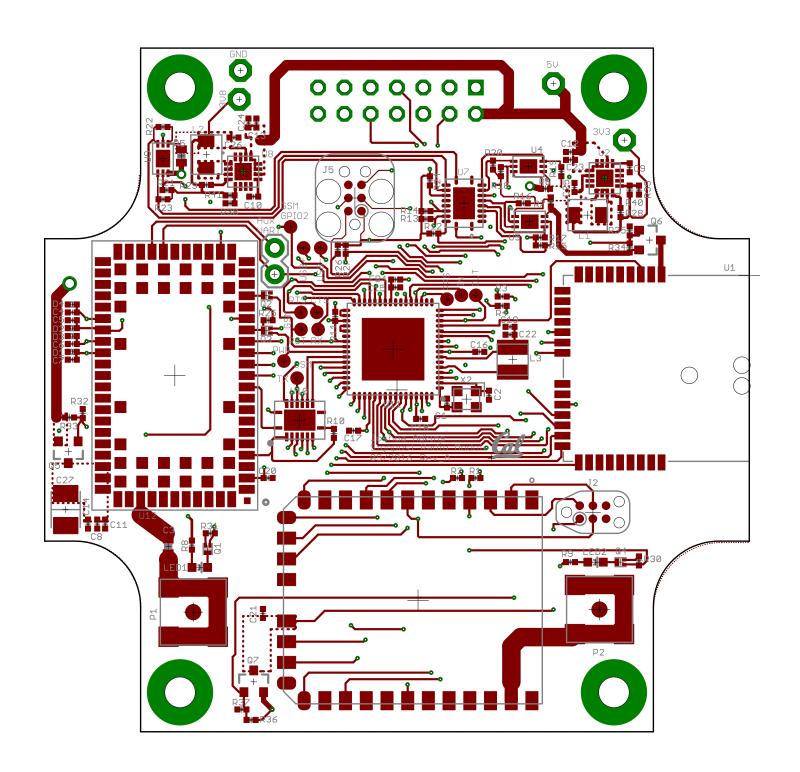
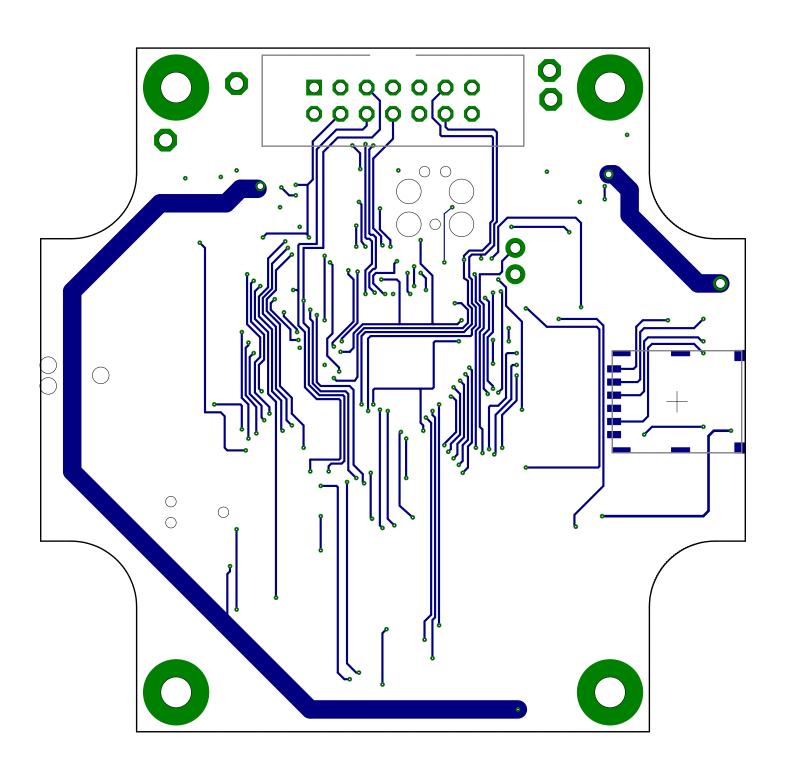


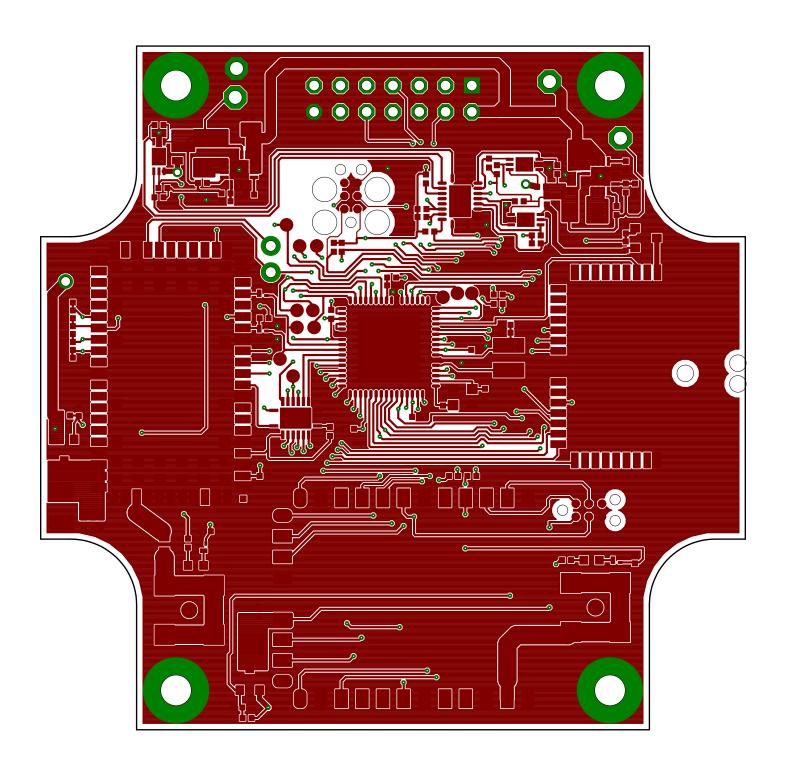
Radio Module		REV: A
Author: Joshua Adkins		
Date: 9/18/16 1:15 AM	Sheet: 4	1/5

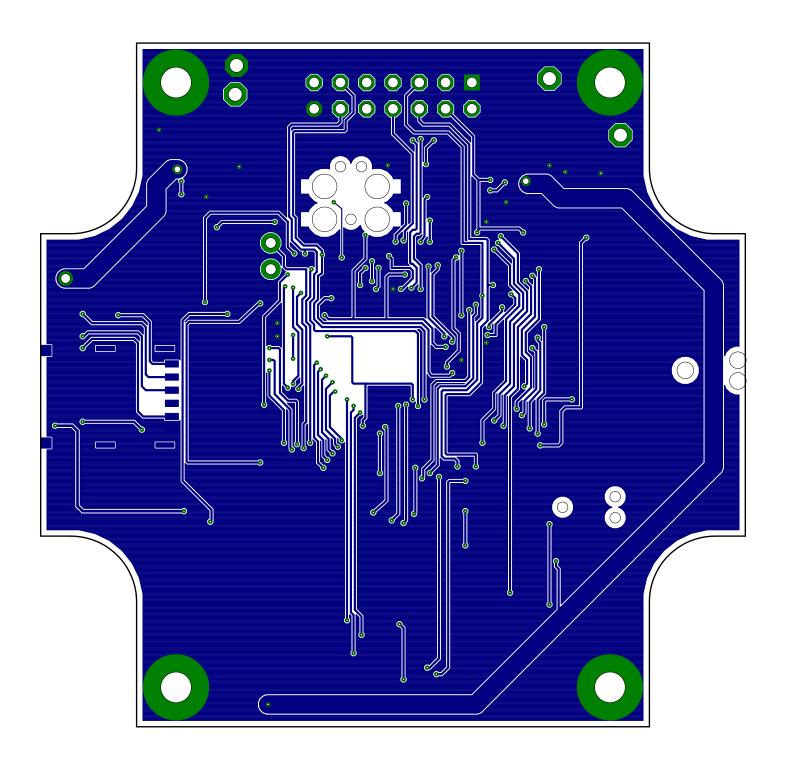


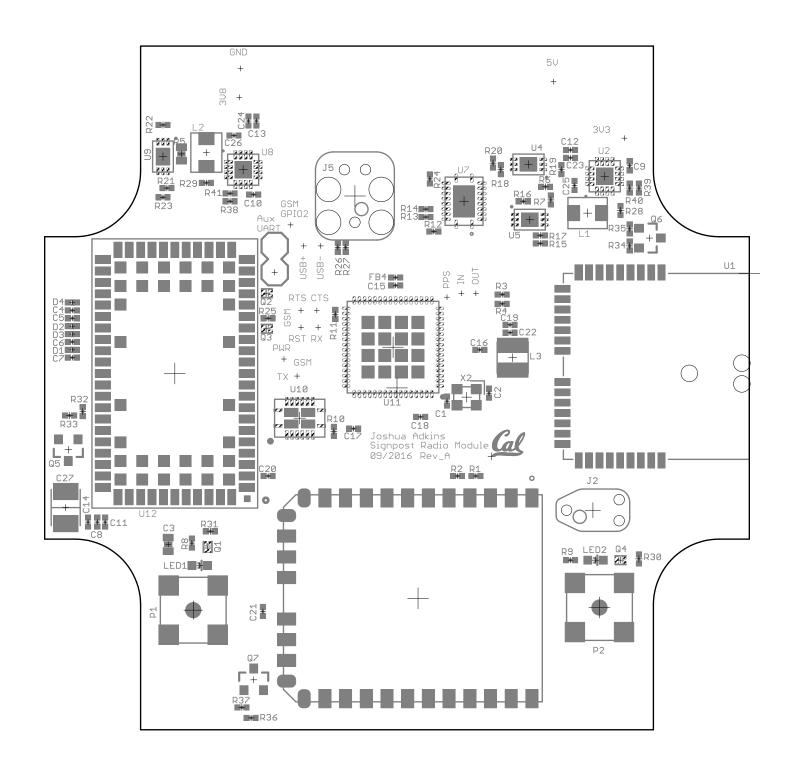


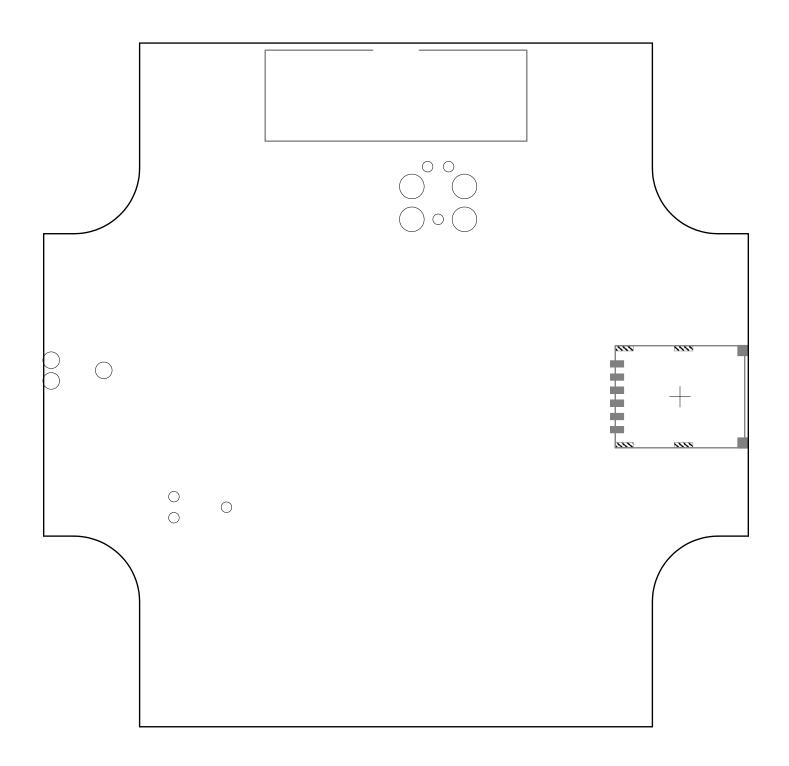


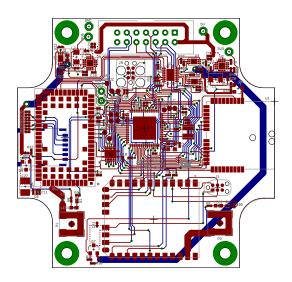


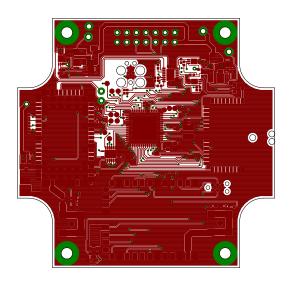


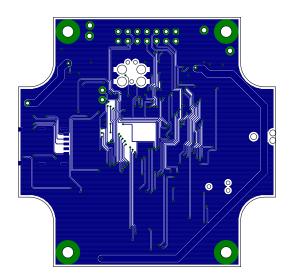












Part	Value	Device	Package
C1	8pF	CAPACITOR0402_CAP	0402_CAP
C2	8pF	CAPACITOR0402_CAP	0402_CAP
C3	33pF	CAPACITOR0603_CAP	0603_CAP
C4	47pF	CAPACITOR0402_CAP	0402_CAP
C5	47pF	CAPACITOR0402_CAP	0402_CAP
C6	47pF	CAPACITOR0402_CAP	0402_CAP
C7	47pF	CAPACITOR0402_CAP	0402_CAP
C8	56pF	CAPACITOR0402_CAP	0402_CAP
C9	3.3nF	CAPACITOR0402_CAP	0402_CAP
C10	3.3nF	CAPACITOR0402_CAP	0402_CAP
C11	10nF	CAPACITOR0402_CAP	0402_CAP
C12	0.1uF	CAPACITOR0402_CAP	0402_CAP
C13	0.1uF	CAPACITOR0402_CAP	0402_CAP
C14	100nF	CAPACITOR0402_CAP	0402_CAP
C15	100nF	CAPACITOR0402_CAP	0402_CAP
C16	100nF	CAPACITOR0402 CAP	0402_CAP
C17	100nF	CAPACITOR0402_CAP	0402_CAP
C18	100nF	CAPACITOR0402 CAP	0402_CAP
C19	100nF	CAPACITOR0402 CAP	0402_CAP
C20	100nF	CAPACITOR0402 CAP	0402_CAP
C21	1uF	CAPACITOR0402_CAP	0402_CAP
C22	4.7uF	CAPACITOR0402_CAP	0402_CAP
C23	10uF	CAPACITOR0402_CAP	0402_CAP
C24	10uF	CAPACITOR0402_CAP	0402_CAP
	22uF	CAPACITOR0402_CAP	0402_CAP
C26	22uF	CAPACITOR0402_CAP	0402_CAP
C27	220uF	CAPACITOR1210_CAP	1210_CAP
D1		DIODE_ZENER	0402_DIODE
D2		DIODE_ZENER	0402_DIODE
D3		DIODE_ZENER	0402_DIODE
D4		DIODE_ZENER	0402_DIODE
FB4	1.5k	FERRITE_BEAD0402	0402_CAP
J1	MODULE_GENERIC	MODULE_GENERIC	MODULE_GENERIC
J4	NANO_SIM	NANO_SIM	WURTH_NANO_SIM
JP1	_	M02PTH	1X02
L1	2.2uH	INDUCTORIHL	IHL-1212BZ-11
L2	2.2uH	INDUCTORIHL	IHL-1212BZ-11
L3	22uH	LHQ3NP	1212
LED'	1 LED0603	LED0603	LED-0603
LED2	2LED0603	LED0603	LED-0603
P1	MOLEX_73251-135X	MOLEX_73251-135X	SMA-J/PCB
P2	MOLEX_73251-135X	MOLEX_73251-135X	SMA-J/PCB
Q1	MOSFET-NCHANNELXFDN-3	MOSFET-NCHANNELXFDN-3	XFDFN-3
Q2	MOSFET-NCHANNELXFDN-3	MOSFET-NCHANNELXFDN-3	XFDFN-3
Q3	MOSFET-NCHANNELXFDN-3	MOSFET-NCHANNELXFDN-3	XFDFN-3
Q4	MOSFET-NCHANNELXFDN-3	MOSFET-NCHANNELXFDN-3	XFDFN-3
Q5	SI223DDS	SI223DDS	SOT23-3
Q6	SI223DDS	SI223DDS	SOT23-3

Q7	SI223DDS	SI223DDS	SOT23-3
R1	0.2202	0 RESISTOR0402_RES	0402_RES
R2		0 RESISTOR0402_RES	0402_RES
R3		0 RESISTOR0402_RES	0402_RES
R4		0 RESISTOR0402_RES	0402_RES
R5		0.015 RESISTOR0603_RES	0603-RES
R6		0.43 RESISTOR0402_RES	0402_RES
R7		3.32 RESISTOR0402 RES	0402_RES
R8	1k	RESISTOR0402 RES	0402_RES
R9	1k	RESISTOR0402_RES	0402_RES
R10		RESISTOR0402_RES	0402_RES
R11		RESISTOR0402_RES	0402_RES
	10k	RESISTOR0402_RES	0402_RES
R16		RESISTOR0402_RES	0402_RES
R17		RESISTOR0402_RES	0402_RES
	10k	RESISTOR0402_RES	0402_RES
	10k	RESISTOR0402_RES	0402_RES
R20		RESISTOR0402_RES	0402_RES
R21		RESISTOR0402_RES	0402_RES
	10k	RESISTOR0402_RES	0402_RES
	10k	RESISTOR0402_RES	0402_RES
R24	10k	RESISTOR0402_RES	0402_RES
	100k	RESISTOR0402_RES	0402_RES
R26		RESISTOR0402_RES	0402_RES
R27		RESISTOR0402_RES	0402_RES
R28	100k	RESISTOR0402_RES	0402_RES
R29		RESISTOR0402_RES	0402_RES
R30	100k	RESISTOR0402_RES	0402_RES
R31	100k	RESISTOR0402_RES	0402_RES
R32	100k	RESISTOR0402_RES	0402_RES
R33	100k	RESISTOR0402_RES	0402_RES
R34	100k	RESISTOR0402_RES	0402_RES
R35	100k	RESISTOR0402_RES	0402_RES
	100k	RESISTOR0402_RES	0402_RES
R37	100k	RESISTOR0402_RES	0402_RES
R38	200k	RESISTOR0402_RES	0402_RES
R39	240k	RESISTOR0402_RES	0402_RES
R40	750k	RESISTOR0402_RES	0402_RES
R41	750k	RESISTOR0402_RES	0402_RES
U1	NUCLEUM	NUCLEUM	NUCLEUM
U2	TLV62130	TLV62130	TQFN-16/3MM
U4	LTC2941	LTC2941	DFN-6-2MMX3MM
U5	LTC2941	LTC2941	DFN-6-2MMX3MM
U6	IM880_MODULE	IM880_MODULE	IM880_MODULE
U7	PCA9544AQFN-N20	PCA9544AQFN-N20	QFN-N20
U8	TLV62130	TLV62130	TQFN-16/3MM

U9	LTC2941	LTC2941	DFN-6-2MMX3MM
U10	TXB0106	TXB0106	R-PVQFN-N16
U11	SAM4LC8BA	SAM4LC8BA	QFN-64-9MM
U12	UBLOX_SARA_G350	UBLOX_SARA_G350	UBLOX_SARA_G3
X2	16 MHz	FH1600015	FHXXX

Description	DIGIKEY
0402 Capacitor	490-5867-1-ND
0402 Capacitor	490-5867-1-ND
0402 Capacitor	490-6241-1-ND
0402 Capacitor	491-6241-1-ND
0402 Capacitor	492-6241-1-ND
0402 Capacitor	493-6241-1-ND
0402 Capacitor	494-6241-1-ND
0402 Capacitor	490-1288-1-ND
0402 Capacitor	490-3248-1-ND
0402 Capacitor	491-3248-1-ND
0402 Capacitor	490-4516-1-ND
0402 Capacitor	490-6328-1-ND
0402 Capacitor	491-6328-1-ND
0402 Capacitor	492-6328-1-ND
0402 Capacitor	493-6328-1-ND
0402 Capacitor	494-6328-1-ND
0402 Capacitor	495-6328-1-ND
0402 Capacitor	496-6328-1-ND
0402 Capacitor	497-6328-1-ND
0402 Capacitor	498-6328-1-ND
0402 Capacitor	490-1320-1-ND
0402 Capacitor	490-5915-1-ND
0402 Capacitor	311-1729-1-ND
0402 Capacitor	312-1729-1-ND
0402 Capacitor	1276-6834-1-ND
0402 Capacitor	1277-6834-1-ND
0402 Capacitor	1276-3375-1-ND
·	PESD0402-140CT-ND
	PESD0402-140CT-ND
	PESD0402-140CT-ND
	PESD0402-140CT-ND
	490-5216-1-ND
Module header and PCB gui	
WURTH Nano SIM Connecto	
Header 2	3M9447-ND
A very specific inductor	541-1322-1-ND
A very specific inductor	541-1322-1-ND
LHQ3NP Inductor	490-5350-1-ND
LED	511-1578-1-ND
LED	512-1578-1-ND
SMA JACK SMT 50 OHM	WM9357-ND
SMA JACK SMT 50 OHM	WM9357-ND
Generic NMOS footprint	DMN2400UFB4-7DICT-ND
6A SOT-23 P Fet	SI2333DDS-T1-GE3CT-ND
6A SOT-23 P Fet	SI2333DDS-T1-GE3CT-ND

6A SOT-23 P Fet SI2333DDS-T1-GE3CT-ND Resistor 311-0.0JRCT-ND Resistor 312-0.0JRCT-ND Resistor 313-0.0JRCT-ND Resistor 314-0.0JRCT-ND Resistor 408-1406-1-ND Resistor P.43AKCT-ND Resistor 541-3.32LLCT-ND Resistor 311-1.0KJRCT-ND Resistor 312-1.0KJRCT-ND Resistor 311-10KJRCT-ND Resistor 312-10KJRCT-ND 313-10KJRCT-ND Resistor 314-10KJRCT-ND Resistor Resistor 315-10KJRCT-ND Resistor 316-10KJRCT-ND Resistor 317-10KJRCT-ND Resistor 318-10KJRCT-ND Resistor 319-10KJRCT-ND Resistor 320-10KJRCT-ND Resistor 321-10KJRCT-ND Resistor 322-10KJRCT-ND Resistor 323-10KJRCT-ND Resistor 324-10KJRCT-ND Resistor 325-10KJRCT-ND Resistor 311-100KLRCT-ND Resistor 312-100KLRCT-ND Resistor 313-100KLRCT-ND Resistor 314-100KLRCT-ND Resistor 315-100KLRCT-ND Resistor 316-100KLRCT-ND Resistor 317-100KLRCT-ND Resistor 318-100KLRCT-ND Resistor 319-100KLRCT-ND Resistor 320-100KLRCT-ND 321-100KLRCT-ND Resistor Resistor 322-100KLRCT-ND Resistor 323-100KLRCT-ND Resistor P200KLCT-ND Resistor YAG3291CT-ND Resistor YAG3228CT-ND Resistor YAG3228CT-ND Nucleum sensorboard prototyping module. High Efficient 3A switching st 296-35978-1-ND I2C Battery Gas Gauge LTC2941IDCB#TRMPBFCT-ND I2C Battery Gas Gauge LTC2941IDCB#TRMPBFCT-ND Lora Radio module by IMST 1-4 I2C/SMBUS Multiplexer w296-20960-1-ND High Efficient 3A switching st 296-35978-1-ND

I2C Battery Gas Gauge LTC2941IDCB#TRMPBFCT-ND

6 channel level translator 296-23868-2-ND

SAM4L Microcontroller. 64QFATSAM4LC8BA-MURDKR-ND

Sara G350 2.5G Radio Module

Pericom Type FH 16 MHz 2.5FH1600015CT-ND