

# Bill of Materials

Main Controller

Source Data From: TACTOSY\_R01.PrjPCB  
 Project: TACTOSY\_R01.PrjPCB  
 Variant: None

Creation Date: 2016-08-31 5:31:32 PM  
 Print Date: 31-Aug-16 5:31:36 PM

Footprint	Comment	LibRef	Designator	Description	Quantity
1608[0603]	C-1608	Cap Semi	C1, C2, C3, C5	Capacitor	4
CAP 2012	C-2012	Cap Semi	C4	Capacitor	1
0402	C-1005	Cap Semi	C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19	Capacitor	14
2450AT18B100	2450AT18B100	Antenna	E1	Generic Antenna	1
MHDR2X5	CN-1.27mm header	MHDR2X5	H1	Debug con.	1
10103592-0001LF	10103592-0001LF	10103592-0001LF	J1	Micro USB B type	1
KYOCERA 6288-24	CN-6288-24	Header 24	J2	KYOCERA 6288-24	1
53261-02	CN-53261-02	Header 2	J3, J4	53261-02	2
DFE322512C0402	L-DFE322512C0402	Inductor	L1	DFE322512C	1
CLY6D-FKC DFN	L-1005 CLY6D-FKC NMOS	Inductor CLY6D-FKC NMOS-2	L2, L3 LED1 Q0, Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19	Inductor RGB LED N-Channel Power MOSFET	2 1 20
RESC1005X04L2	R-1005	Res3	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29	Resistor	29
BAT54LP	D-BAT54LP	Diode	SD1, SD2, SD3, SD4, SD5, SD6, SD7, SD8, SD9, SD10, SD11, SD12, SD13, SD14, SD15, SD16, SD17, SD18, SD19, SD20	Freewheel Diode	20
Tact Switch MSOP10	ITS-1150D	Header 2	SW1	Tact switch	1
DSBGA20	IC-BQ24092	BQ24092	U1	Battery charger	1
QFN48	IC-TPS630252	TPS630252	U2	Buck-boost converter	1
QFN16	IC-NRF52832	NRF52832	U3	BLE module	1
TSOP65P640X110-28N	IC-MCP2221	MCP2221	U4	USBtoI2C	1
FA12800092	IC-PCA9685	PCA9685	U5, U6	Driver	2
ABS07	XTAL-FA12800092	FA12800092	XTAL1	XTAL 32MHz, CL=10pF	1
	XTAL-ABS07	XTAL	XTAL2	XTAL 32kHz, CL=7pF	1
					107

Approved	Notes