

Source Data From:

Project: iMCP\_HTSXMO32L-22\_EvB
Project Revision: 3.3.2

## **B.O.M.** - Bill of Materials

 B.O.M. Revision:
 3.0

 Status:
 Concluded

 Revision Date:
 10/23/2020

 Author:
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 Obs.:
 Added R16 (Boot0 pin Pulldown resistor).

SUMMARY	
Total of components	51
Total of different components	32
Thru-Hole components	6
SMT components	45
Total of passive components	48
Total of active components	3

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Item Number	Part Reference	Quantity	Value	Description	Footprint	Manufacturer	Manufacturer Part Number	Туре	Assembly Type
1	C1	1	10nF	Multilayer Ceramic Capacitor 10nF, 10%, 50V	0402	Murata	GCM155R71H103KA55D	Passive	SMT
2	C2, C3	2	47pF	Multilayer Ceramic Capacitor 47pF, 5%, 50V	0402	Murata	GCM1555C1H470JA16J	Passive	SMT
3	C4, C7, C8, C9, C12, C14	6	100nF	Multilayer Ceramic Capacitor 100nF, 10%, 50V	0402	Murata	GCM155L8EH104KE07D	Passive	SMT
4	C5, C6	2	1uF	Multilayer Ceramic Capacitor 1uF, 10%, 25V, X5R	0402	Murata	GRM155R61E105KA12D	Passive	SMT
5	C10, C11	2	25pF	Multilayer Ceramic Capacitor 25pF, 5%, 50V	0402	Yageo	CC0402JRNPO9BN250	Passive	SMT
6	C13	1	4.7pF	Multilayer Ceramic Capacitor 4.7pF, 0.05pF tolerance, 50V	0402	Murata	GRM1555C1H4R7WA01D	Passive	SMT
7	CN1	1	50ohms	UFL connector 500hms	NA	Linx Technologies	CONUFL001-SMD	Passive	SMT
8	CN2	1	NA	Micro USB 2.0 Connector	NA	Amphenol ICC (FCI)	10118194-0001LF	Passive	PTH
9	CN3	1	NA	PH 2.0 2 pin connector	NA	JST	S2B-PH-SM4-TB(LF)(SN)	Passive	SMT
10	CN4	1	1x12	Pin Header 1x12, Male, through hole, 2.54mm pitch, vertical	NA	Harwin	M20-9771246	Passive	PTH
11	CN5	1	1x16	Pin Header 1x16, Male, through hole, 2.54mm pitch, vertical	NA	Harwin	M20-9991646	Passive	PTH
12	D1	1	NA	Shottky Diode Rectifier 1A 20V	SOD-123FL	ON Semiconductor	MBR120VLSFT3G	Passive	SMT
13	D2	1	NA	Standard LEDs - SMD 0603 Blue Led	0603	Inolux	IN-S63AT5B	Passive	SMT
14	D3	1	NA	Standard LEDs - SMD 0603 White Led	0603	ROHM Semiconductor	SMLE12WBC7W1	Passive	SMT
15	FB1	1	30ohms	Ferrite Bead 30ohms 1.1A, 25% tolerance	0402	Murata	BLM15AX300SN1D	Passive	SMT
16	J1	1	NA	RF Shield	NA NA	Würth Elektronik	36903205S	Passive	SMT
17	JP2, JP3, JP4	3	1x2	Pin header 1x2, Male, through hole, 2.54mm pitch, vertical	NA	Harwin	M20-9990246	Passive	PTH
18	L1	1	5.6nH	Fixed Inductor 5.6nH, 40mOhms, 1.77A	0402	Murata	LOW15AN5N6B8ZD	Passive	SMT
19	Q1, Q2	2	NA	MOSFET P-CH 3.7A 65mOhm	SOT23-3	Infineon Technologies	IRLML6402TRPBF	Passive	SMT
20	R1, R5, R6, R7, R8	5	100K	Thin film resistor, 100kohms, 1%, 50V	0402	Yageo	RT0402FRE07100KL	Passive	SMT
21	R2, R3	2	27	Thin film resistor, 27ohms, 1%, 50V	0402	Yageo	RT0402FRE0727RL	Passive	SMT
22	R4, R9, R12	3	1K	Thin film resistor, 1kohms, 1%, 50V	0402	Yageo	RT0402FRE071KL	Passive	SMT
23	R10, R15, R16	2	10K	Thin film resistor, 10kohms, 1%, 50V	0402	Yageo	RT0402FRE0710KL	Passive	SMT
24	R11	1	2K	Thin film resistor, 2kohms, 1%, 50V	0402	Yageo	RT0402FRE072KL	Passive	SMT
25	R13	1	4K7	Thin film resistor, 4.7kohms, 1%, 50V	0402	Yageo	RT0402FRE074K7L	Passive	SMT
26	R14	1	100	Thin film resistor, 100ohms, 1%, 50V	0402	Yageo	RT0402FRE07100RL	Passive	SMT
27	SW1	1	NA	Tactile switch SPST-NO Top actuated surface mount, color white	NA	C&K	PTS815 SJK 250 SMTR LFS	Passive	SMT
28	SW2	1	NA	Tactile switch SPST-NO Top actuated surface mount, color blue	NA	C&K	PTS810 SJG 250 SMTR LFS	Passive	SMT
29	U1	1	NA	iMCP HT32SX Sigfox	LGA32	HT Micron	iMCP_HTSXMO32L_V2.2	Active	SMT
30	U2	1	NA	USB to Serial Converter IC	DFN-12	FTDI	FT234XD-R	Active	SMT
31	U3	1	NA	LDO Voltage Regulators 3.3V 500mA	WSON-6	Texas Instruments	TLV75801PDRVR	Active	SMT
32	X1	1	32.768kHz	Low Frequency SMD Crystal	NA	Abracon	ABS25-32.768KHZ	Passive	SMT