

# Bill Of Materials for RPI Lora HAT

**Design Title** RPI Lora HAT  
**Author** EHo  
**Document Number** 20200801  
**Revision** 1  
**Design Created** lauantai 30. marraskuuta 2019  
**Design Last Modified** torstai 30. heinäkuuta 2020  
**Total Parts In Design** 26

## 1 Modules

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part Description</u>	<u>PCB Package</u>	<u>Stock Code</u>	<u>Remarks</u>
1	M1	SX1276 Lora Module 868Mhz	Lora Module 868MHz	LORA-SX1276-SMT	SX1276 Lora Module 868Mhz	

Sub-totals:

## 3 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part Description</u>	<u>PCB Package</u>	<u>Stock Code</u>	<u>Remarks</u>
1	C1	100nF	Capacitor, 50V, ±10%	0603		
2	C2,C3	1nF	Capacitor, 50V, ±10%	0603		Not mounted

Sub-totals:

## 12 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part Description</u>	<u>PCB Package</u>	<u>Stock Code</u>	<u>Remarks</u>
4	R1,R2,R8,R11	330	Resistor, ±5%	0603		
6	R3,R4,R6,R7, R9,R10	47k	Resistor, ±5%	0603		
1	R5	0.001	Zero Ohm Resistor	0603		Not mounted
1	R12	0.001	Zero Ohm Resistor	0603		

Sub-totals:

## 3 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part Description</u>	<u>PCB Package</u>	<u>Stock Code</u>	<u>Remarks</u>
3	Q1,Q2,Q3	BSS123	N-MOSFET	SOT95P230X109-3	Farnell 9845321	

Sub-totals:

## 4 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part Description</u>	<u>PCB Package</u>	<u>Stock Code</u>	<u>Remarks</u>
4	D1, D2, D3, D4	KPT-1608CGCK	LED	LEDC1608X85N	Farnell 2099220	

Sub-totals:

<b>3 Miscellaneous</b>
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<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Part Description</u>	<u>PCB Package</u>	<u>Stock Code</u>	<u>Remarks</u>
1	J1	2214S-40SG-85	RPI Connector	SHDR40W64P254_2X20_5130X500X865P	Farnell 2847248	
1	J2	Taoglas RECE-20279-001E-01	I-PEX Connector	CONN-IPEX	Farnell 2856815	Not mounted
1	L1	0.001	Inductor	0603		Zero ohm resistor

Sub-totals:

Totals: