

# Bill Of Materials for USB\_MEGA\_pro

**Design Title** USB\_MEGA\_pro  
**Author**  
**Document Number**  
**Revision**  
**Assembly Variant** Exc. from BOM  
**Design Created** 26 января 2023 г.  
**Design Last Modified** 10 февраля 2023 г.  
**Total Parts In Design** 45

## 0 Modules

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">description</a>
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Sub-totals:

## 8 Capacitors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">description</a>
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8	C1-C8	4.7u	
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Sub-totals:

## 13 Resistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">description</a>
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4	R1,R3,R6, R8	10	SMD0805 1%
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2	R2,R7	0.015	SMD2010 1% 0.5W
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4	R4-R5,R12- R13	10K	SMD0805 1%
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1	R9	120k	SMD0805 1%
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1	R10	47K	SMD0805 1%
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1	R11	0.1	Ceramic power resistor 3W 1%
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Sub-totals:

## 7 Integrated Circuits

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">description</a>
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1	U1	24C32A	32K 5.0V I2C Smart Serial EEPROM
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1	U2	MEGA_PRO_EMBED_CH340G__ATMEGA2560	Mega 2650 PRO mini 5V
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2	U3,U5	INA219AID	High Side DC Current and Voltage Sensor
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1	U4	MT3608	2A DC-DC Step Up (Boost) Power Module Output +15V
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1	U6	LM358N	Dual, operational amplifier
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1	U7	LM35	Temperature Sensor
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Sub-totals:

## 4 Transistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">description</a>
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1	Q1	BUZ10	N - CHANNEL 50V - 0.06? - 23A -TO-220 POWER MOSFET
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3	Q2-Q4	2N7000	N-channel FET Transistor SOT-23
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Sub-totals:

## 2 Diodes

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">description</a>
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1	D1	BAT54S	Dual Schottky Diodes Common Cathode SOT-23
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1	D2	20CJQ030	Schottky Diodes & Rectifiers 2.0 Amp 30 Volt Common Cathode SOT-223
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Sub-totals:

## 11 Miscellaneous

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">description</a>
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3	J1-J3	0548190519	USB - mini B USB 2.0 OTG Receptacle Connector 5 Position Through Hole, Right Angle
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2	J4-J5	USB3	
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1	LCD2	ST7735R	TFT COLOR DISPLAY
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1	RL1	ACT112	Automotive Relay, 12 VDC, 20 A, SPDT, Through Hole, PC Pin, ACT
4	SW1-SW4	PTS645	6 mm Tact Switches Vertical

Sub-totals:

Totals:

10 февраля 2023 г. 17:52:45