

MV-IMCU-V3

version

3,1

## PCB - Components

Component

Comment	Designator	Designator
Header_1x2	12Vin, i2c, relay1, relay2, rs485, sw1, sw2, sw_auto	
10u-16V	C1, C5, C13, C15, C17, C18, C22, C24	
100n-16V	C2,C3,C4, C12, C14, C16, C21, C23	
10u-16V	C6, C7, C19	
330uF	C8, C9, C20	
220p	C10	
22n	C11	
dioda	D1	
powr_jack_3p	J1	
Header_2x7	J8	
Header_1x10	Jbord	
inductor	L1	
resistor	R1, R2, R3, R4, R7, R15, R16, R18, R19, R20, R23, R24	
resistor	R5, R6	
resistor	R8, R9, R13, R14	
resistor	R10	
resistor	R11	
resistor	R12	
res_pot	R17	
resistor	R21, R22	
resistor	R25	
7805	U1	
TC1262	U5	
MPXV7025DP	U2, U4	
OpAmp	U3	
L5973D	U6	
74ac11257	U7	
LCD_alphanum_2	U8	
KB817A	U9, U10	
ESP32_ESPRESSIF	U11	
SN65HVD485	U12	
Header_1x3	i2c-pow	
LED	ld1	
LED	ld2	
LED	ld3	
Header_1x4	led123	

Solid State Relays - Industrial Mount SOLID STATE RELAY TUV Markings

## **PCB - IMCU**

### **User display (1 from the alternatives)**

#### Alternative 1

4x20 LCD

serial/i2c converter

#### Alternative 2

4,3 col TFT screen (UART) instead of 4x20 LCD, ITEAD

Buttons PPVU user interface buttons

button holder PCB

### **IMCU plasticbox**

screws

screew -mothers

screw - spacers

### **Cover sheet**

self adhesive non transparent, UV and water resistanre foil with printed labels and

self adhesive, grey, water resistant, product label at the back of the box

### **Cables**

Footprint	LibRef	Qty	Value	Description
F_SK350_2sk	3,5mm	8		
0805c	cap_k	8	10uF/16V	
0805c	cap_k	8	100n/50V	
1206c	cap_k	2	10uF/16V	
SMD_cap.D	cap_elko	3	330uF/6,3V	SMD D type
0805c	cap_k	1	220pF	
0805c	cap_k	1	22nF	
SMA	dioda	1	B340A	
power_jack_3	powr_jack	1		
F_HDR2X7	2,54mm	1		
F_HDR1X10	Header_1x	1		
L_PD3316	inductor	1	15uH	
0805r	res_d	12	1K	
0805r	res_d	2	1K5	
0805r	res_d	3	10K 1%	
0805r	res_d	1	3K3 1%	
0805r	res_d	1	0	
0805r	res_d	1	4K7	
SMD_POT	res_pot	1	10K	3.8x4.5mm (3364W-1)
0805r	res_d	2	100	
0805r	res_d	1	?	
DPACK	7805	1	7805	7805
DPAXK		1		7833
press_sens_4mix		2		
SOIC-8	OpAmp2x	1		<a href="#">TLC2262IDR</a>
H-SOIC-8	L5973D	1	L5973D	
SOIC-20W	74ac11257	1		
LCD_MC2160	LCD_alpha	1	MC21605C6W	
SO-4_opt	K817P	2	ACPL-217-500E	Optocsatóló
ESP32_ESPRE	ESP32_ESP	1		ESP32_ESPRESSIF
SOIC-8	SN65HVD4	1		RS485
F_SK350_3sk	Header_1x	1		
SMDLED_080	LED	1	LED	red
SMDLED_080	LED	1	LED	blue
SMDLED_080	LED	1	LED	green
F_SK350_4sk	Header_1x	1		
		2		

1

1

1

4.3"      NX4827T043

1

6

1

10

4

10

button images

1

1

1