

# Fahrpult 2 Portbelegung Arduino Mega

Dokumentversion: v10

Ver. 31.10.2024

Arduino Pin Name	Port	Pre-defined	Name SW	Platine	Anschluss	I/O	
AREF	-	-					
GND	-	-					
13	PB7	LED		P5.5	(U1.2/3) RS485	Out	
12	PB6	PWM		P5.6	(R8, J32.2) LED gelb	Out	
11	PB5	PWM		P5.7	(R7, J31.2) LED Blau	Out	
10	PB4	PWM		J23.5	LCD CS	Out	
9	PH6	PWM		J23.8	LCD BL	Out	
8	PH5	PWM		J23.7	LCD RST	Out	
7	PH4	PWM		J23.6	LCD DC	Out	
6	PH3	PWM		J27.4	LED DispL. CLK	Out	
5	PE3	PWM		J27.3	LED DispL. DIO	Out	
4	PG5	PWM		J26.4	LED DispR CLK	Out	
3	PE5	PWM		J26.3	LED DispR DIO	Out	
2	PE4			P6.6	(R6) LocoNet	Out	
1	PE1	TX0	Serial()			Out	
0	PE0	RX0	Serial()			In	
14	PJ1	TX3	Serial3	J25.2	Nextion II	Out	
15	PJ0	RX3	Serial3	J25.3	Nextion II	In	
16	PH1	TX2	Serial2	J24.2	Nextion RX	Out	
17	PH0	RX2	Serial2	J24.3	Nextion TX	In	
18	PD3	TX1	XpressNet()	P7.5	(U1.4) RS485	Out	
19	PD2	RX1	XpressNet()	P7.6	(U1.1) RS485	In	
20	PD1	SDA (I2C)		P7.7	nc		
21	PD0	SCL (I2C)		P7.8	nc		
22	PA0		PINA	J29.1	rotary switch 1	In pull-up	
23	PA1		PINA	J29.2	rotary switch 2	In pull-up	
24	PA2		PINA	J29.3	rotary switch 3	In pull-up	
25	PA3		PINA	J29.4	rotary switch 4	In pull-up	
26	PA4		PINA	J6.1	SW_V	In pull-up	
27	PA5		PINA	J6.3	SW_R	In pull-up	
28	PA6		PINA	J5.5	Taste Swap (PB_L)	In pull-up	
29	PA7		PINA	J5.7	Taste Track (PB_R)	In pull-up	
30	PC7		PINC	P1.25	nc	In pull-up	
31	PC6		PINC	P1.26	nc	In pull-up	
32	PC5		PINC	P1.23	nc	In pull-up	
33	PC4		PINC	P1.24	nc	In pull-up	
34	PC3		PINC	J29.8	rotary switch 8	In pull-up	
35	PC2		PINC	J29.7	rotary switch 7	In pull-up	
36	PC1		PINC	J29.6	rotary switch 6	In pull-up	
37	PC0		PINC	J29.5	rotary switch 5	In pull-up	
38	PD7		LEDtrPwr	J16.1	LED Track	Out	
39	PG2		LEDws	J16.3	LED Test 1 (white)	Out	
40	PG1		LEDrt	J16.5	LED Test 2 (red)	Out	
41	PG0		LEDcab	J16.7	LED Innenlicht	Out	
42	PL7		LEDbverz	J11.1	LED Last aus	Out	
43	PL6			J11.3	LED Reserve		
44	PL5			J11.5	LED Reserve		
45	PL4		MessPin	J11.7	MessPin	Out	
46	PL3			J11.9	Reserve		
47	PL2			J11.11	Reserve		
48	PL1			P1.7	(U2.7, R1) LocoNet		
49	PL0			P1.8	nc		
50	PB3			J30.3	J33.3 SPI MISO	In	
51	PB2			J23.3	SPI MOSI	Out	
52	PB1			J23.4	J30.4, J33.4 SPI SCK	Out	
53	PB0			J33.6	J30.5, J33.5 CS microSD	Out	

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A0	PF0		PINF	J2.2	Taste tbd	In pull-up	
A1	PF1		PINF	J2.4	J5.3 Taste Licht (F1) Test_Poti	In pull-up	
A2	PF2		PINF	J2.6	Taster Licht (F0)	In pull-up	
A3	PF3		PINF	J2.8	Taster Entkuppler (F2)	In pull-up	
A4	PF4		PINF	J2.10	Taste Horn (F4)	In pull-up	
A5	PF5		PINF	J2.12	Taste Horn2 (F9)	In pull-up	
A6	PF6		PINF	J2.14	Taste Licht innen (F6)	In pull-up	
A7	PF7		PINF	J2.16	Taste Last aus	In pull-up	
A8	PK0			J1.2	SW Jog Wheel	In	
A9	PK1			J1.4	DT Jog Wheel	In	
A10	PK2			J1.6	CLK Jog Wheel	In	
A11	PK3			J1.8	J13.2 Poti FahrS	Ain	
A12	PK4			J1.10	J12.2 Poti BVerz	Ain	
A13	PK5			J1.12	J9.2 Poti FBrV	Ain	
A14	PK6			J1.14	Reserve SW Serial	Out	
A15	PK7			J1.16	Reserve SW Serial	In	

Taste: Momenttaster, schaltet bei Tastendruck

Schalter: z.B. Kipp- oder Drehschalter, Stellung bleibt beim Loslassen erhalten

### Änderungen

03.12.2021	V. 06	3 weitere Pult-Taster festgelegt an J2.6, J2.8, J2.10	
14.09.2022	V.07	statt Keyboard rotary-Switch, 4 weitere Pult-Taster	
28.09.2023	V.08	Drehimpulsgeber A8, A9, A10	
27.12.2023	V.09	Taster J2.12, J2.14, J216, LEDs J11.1, J16.3, J16.5, J16.7	
31.10.2024	V.10	MessPin J11.7	