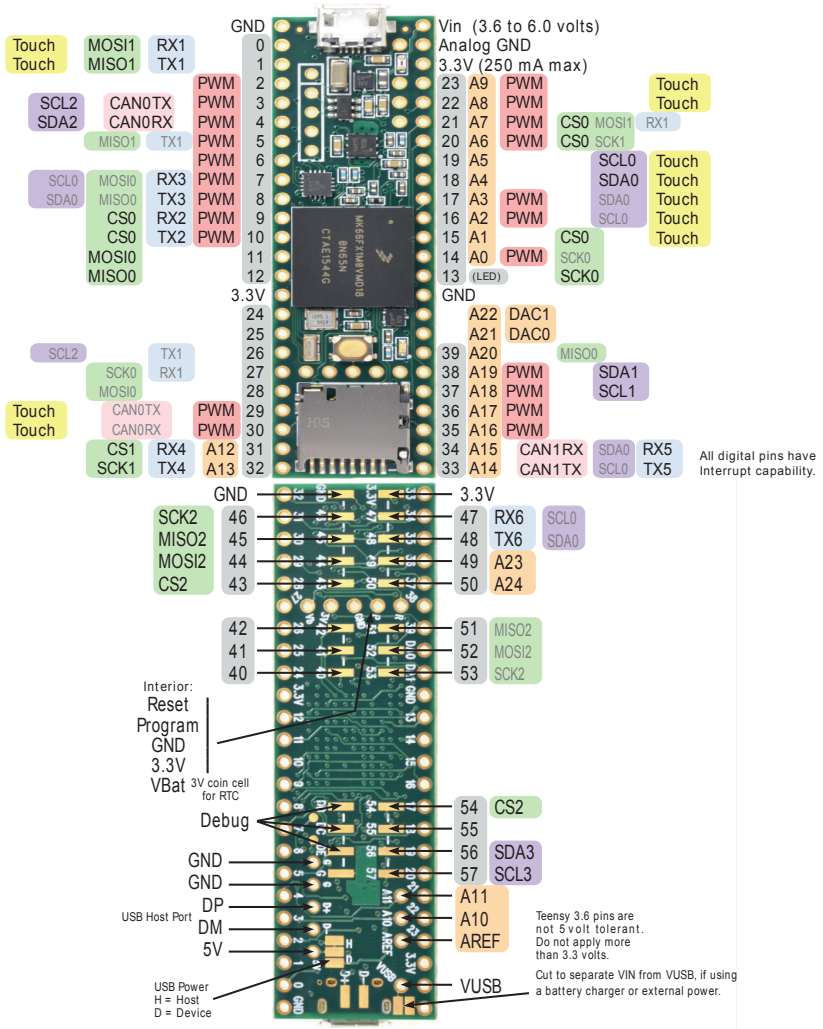
c't-Bot Teensy 3.6 Pin Mapping

Pin	Funktion	Signal	Verwendung	ct-Bot	Neu	Erweiterung	optional
0	MOSI1/RX1	MOSI1	SPI 1 Master (Display, Maus)		x		
1	MISO1/TX1	MOSI1	SPI 1 Master (Display, Maus)		x		
2	PWM (FTM3)	PWM_ERW	PWM Erweiterung Motor			x	x
3	SCL2/PWM (FTM1)	SCL2	I2C 2 (Ena, LED, LCD)		x		
4	SDA2/PWM (FTM1)	SDA2	I2C 2 (Ena, LED, LCD)		x		
5	PWM (FTM0)	PWM1	Servo 1	x			
6	PWM (FTM0)	PWM2	Servo 2	x			x
7	SCL0/RX3/PWM (FTM3)	SCL0	I2C 0 oder Uart 3			x	x
8	SDA0/TX3/PWM (FTM3)	SDA0	I2C 0 oder Uart 3			x	x
9	RX2/PWM (FTM0)	RXD2	WiFi / USB2Bot TX	x			x
10	TX2/PWM (FTM0)	TXD2	WiFi / USB2Bot RX	x			x
11	MOSI0	MOSI0	RPi SPI Slave MOSI		x		x
12	MISO0	MISO0	RPi SPI Slave MISO		x		x
13	LED	-	LED		x		
14	SCK0/A0/PWM (FTM3)	SCK0	RPi SPI Slave SCK		x		x
15	CS0/A1	CS0	RPi SPI Slave CS		x		x
16	A2/SCL0/PWM (TPM1)	MLINKS_3V3	Liniensensor L	x			
17	A3/SDA0/PWM (TPM1)	MRECHTS_3V3	Liniensensor R	x			
18	A4/SDA0	KANTEL	Kantensensor L	x			
19	A5/SCL0	KANTER	Kantensensor R	x			
20	PWM (FTM0)/A6/CS0/SCK1	PWM3	Servo 3			x	x
21	PWM (FTM0)/A7/CS0/MOSI1	PWM4	Servo 4			x	x
22	PWM (FTM0)/A8	PWM5	Servo 5			x	x
23	PWM (FTM0)/A9	PWM6	Servo 6			x	x
24	GPIO	RADL	Radencoder L	x			
25	GPIO	RADR	Radencoder R	x			
26	TX1	TX1	RPi Uart		x		x
27	RX1/SCK0	RX1	RPi Uart		x		x
28	GPIO/MOSI0	FERNBED	Fernbedienung	x			
29	GPIO/PWM (FTM2)	MOT_L_DIR	Motor L Control (PWM möglich)	x			
30	GPIO/PWM (FTM2)	MOT_R_DIR	Motor R Control (PWM möglich)	x			
31	CS1/A12/RX4	CS1	SPI 1 Master (Display, Maus)		x		
32	SCK1/A13/TX4	SCK1	SPI 1 Master (Display, Maus)		x		
33	TX5/A14/SCL0	TX5	Bluetooth Uart		x		x
34	RX5/A15/SDA0	RX5	Bluetooth Uart		x		x
35	PWM (FTM3)/A16	MOT_L_PWM	Motor L PWM	x			
36	PWM (FTM3)/A17	MOT_R_PWM	Motor R PWM	x			
37	A18/SCL1/PWM (FTM3)	LDRL	Lichtsensor L (auch I2C möglich)	x			
38	A19/SDA1/PWM (FTM3)	LDRR	Lichtsensor R (auch I2C möglich)	x			
39	A20/MISO0	BAT_IN_FB	Überwachung Batterie		x		
A21	A21/DAC0	A21/DAC0	Analog Erweiterung			x	x
A22	A22/DAC1	A22/DAC1	Analog Erweiterung			x	x
40	GPIO	GPIO40	Erweiterung oder SPI CS			x	x
41	GPIO	GPIO41	Erweiterung oder SPI CS			x	x
42	GPIO	GPIO42	Erweiterung oder SPI CS			x	x
43	CS2	CS2	SPI 2 Master			x	x
44	MOSI2	MOSI2	SPI 2 Master			x	x
45	MISO2	MISO2	SPI 2 Master			x	x
46	SCK2	SCK2	SPI 2 Master			x	x
47	RX6/SCL0	RX6	Uart Erweiterung			x	x
48	TX6/SDA0	TX6	Uart Erweiterung			x	x
49	A23	SERVO2_FB	Servo 2 Feedback			x	x
50	A24	SERVO3_FB	Servo 3 Feedback			x	x
51	GPIO/MISO2	BPS	BPS Sensor		x		x
52	GPIO/MOSI2	MAUS_CLK	Maus CLK / SPI 1 CS Maus	x			
53	GPIO/SCK2	MAUS_D_3V3	Maus SDIO	x			
54	GPIO/CS2	SCHRANKE	Transportfachüberwachung	x			
55	GPIO	KLAPPE	Klappenposition	x			
56	SDA3/GPIO	SDA3	I2C 3			x	x
57	SCL3/GPIO	SCL3	I2C 3			x	x
A11	A11	ABSTL_3V3	Distanzsensor L	x			
A10	A10	ABSTR_3V3	Distanzsensor R	x			
D+	DP	USB1_D+	USB Host			x	x
D-	DM	USB1_D-	USB Host			x	x
Vb	VBat	VBAT_RTC	RTC Batterie		x		x
R	Reset	RESET	Reset Teensy via RPi		x		x



Sources: https://www.pjrc.com/teensy/card9a_rev1.pdf; https://www.pjrc.com/teensy/card9b_rev1.pdf