

Modul	M128	Port		#	Name1	Name2	Comments	
	1				PEN		prog. Enable	
X1_16	2	PE0	4	32	RXD0	PDI	Programmer	
X1_15	3	PE1	4	33	TXD0	PDO	Programmer	
X1_14	4	PE2	4	34	AIN0	XCK0		
X1_13	5	PE3	4	35	AIN1	OC3A	PWM-IR	
X1_12	6	PE4	4	36	INT4	OC3B	BOOT	
X1_11	7	PE5	4	37	INT5	OC3C		
X1_10	8	PE6	4	38	INT6	T3	Encoder right	
X1_9	9	PE7	4	39	INT7	IC3	Encoder left	
X1_8	10	PB0	1	8	SS		Encoder IR	
X1_7	11	PB1	1	9	SCK			
X1_6	12	PB2	1	10	MOSI			
X1_5	13	PB3	1	11	MISO			
X1_4	14	PB4	1	12	OC0		Beep	
X1_3	15	PB5	1	13	OC1A		Motor right	
X1_2	16	PB6	1	14	OC1B		Motor left	
X1_1	17	PB7	1	15	OC1C	OC2	Motor Driver Enable	
X2_5	18	PG3	6	51	TOSC2			
X2_6	19	PG4	6	52	TOSC1			
X2_3	20				RESET			
X4_10	21				VCC			
X4_12	22				GND			
	23				XTAL2		Oscillator	
	24				XTAL1		Oscillator	
X2_9	25	PD0	3	24	INT0	SCL	I2C	EEPROM/ UNIT-BUS
X2_10	26	PD1	3	25	INT1	SDA	I2C	EEPROM/ UNIT-BUS
X2_11	27	PD2	3	26	INT2	RXD1	TSOP1736	
X2_12	28	PD3	3	27	INT3	TXD1	IR left	
X2_13	29	PD4	3	28	IC1			
X2_14	30	PD5	3	29	XCK1		IR right	
X2_15	31	PD6	3	30	T1			
X2_16	32	PD7	3	31	T2			
X2_7	33	PG0	6	48				
X2_8	34	PG1	6	49				
X4_8	35	PC0	2	16			LED front left	
X4_7	36	PC1	2	17			LED front right	
X4_6	37	PC2	2	18			LED back left	
X4_5	38	PC3	2	19			LED back right	
X4_4	39	PC4	2	20			LED line sensor	
X4_3	40	PC5	2	21				
X4_2	41	PC6	2	22				
X4_1	42	PC7	2	23				
X2_4	43	PG2	6	50				
X3_16	44	PA7	0	7				
X3_15	45	PA6	0	6				
X3_14	46	PA5	0	5				
X3_13	47	PA4	0	4				
X3_12	48	PA3	0	3				
X3_11	49	PA2	0	2				
X3_10	50	PA1	0	1				
X3_9	51	PA0	0	0				
X4_10	52				VCC			
X4_12	53				GND			
X3_8	54	PF7	5	47	ADC7			
X3_7	55	PF6	5	46	ADC6			
X3_6	56	PF5	5	45	ADC5		LDR right	
X3_5	57	PF4	5	44	ADC4		LDR left	
X3_4	58	PF3	5	43	ADC3		Mic	
X3_3	59	PF2	5	42	ADC2		Line sensor right	
X3_2	60	PF1	5	41	ADC1		Line sensor left	
X3_1	61	PF0	5	40	ADC0		Ub Messurment	
X4_11	62				AREF		Interne Ref. 2.56V!	
X4_12	63				GND			
X4_9	64				AVCC			

Timer 0	8 Bit			User	
Timer 1	16 Bit			User	
Timer 2	8 Bit			Systemzeitbasis	
Timer 3	16 Bit			User	