

Suggestion for the pins of the Master „Line“

PORTA	0	Pin 2	line sensor	PORTC	0	Pin 15	n.b.
	1	3	line sensor		1	16	PWM
	2	4	line sensor		2	17	PWM
	3	5	line sensor		3	18	I2C-Clk
	4	6	LED		4	23	I2C-Dat
	5	7	line sensor		5	24	servo (grabber)
	6		unimplemented		6	25	servo (elevator)
	7		unimplemented		7	26	IR-distance sensor
PORTB	0	33	Encoder	PORTD	0	19	Motor
	1	34	n.u.		1	20	Motor
	2	35	metall line sensor		2	21	Motor
	3	36	servo (distance sensor)		3	22	Motor
	4	37	US-Echo		4	27	Taster
	5	38	US-Echo		5	28	US-Trigger
	6	39	ICSP-Clk		6	29	US-Trigger
	7	40	ICSP-Dat		7	30	n.u.
PORTE	0	8	line sensor		4		unimplemented
	1	9	line sensor		5		unimplemented
	2	10	line sensor		6		unimplemented
	3	1	MCLR		7		unimplemented

n.u.: not used

Suggestion for the pins of the Master „Maze“

PORTA	0	Pin 2	IR-distance sensor	PORTC	0	Pin 15	n.u.
	1	3	IR-distance sensor		1	16	PWM
	2	4	IR-distance sensor		2	17	PWM
	3	5	IR-distance sensor		3	18	I2C-Clk
	4	6	LED		4	23	I2C-Dat
	5	7	IR-distance sensor		5	24	Servo (Rescue-Kit)
	6		unimplemented		6	25	n.u.
	7		unimplemented		7	26	„color sensor“
PORTB	0	33	Encoder	PORTD	0	19	Motor
	1	34	Encoder		1	20	Motor
	2	35	Metall tile sensor		2	21	Motor
	3	36	n.u.		3	22	Motor
	4	37	US-Echo		4	27	Taster
	5	38	US-Echo		5	28	US-Trigger
	6	39	ICSP-Clk		6	29	US-Trigger
	7	40	ICSP-Dat		7	30	n.u.
PORTE	0	8	IR-distance sensor		4		unimplemented
	1	9	IR-distance sensor		5		unimplemented
	2	10	IR-distance sensor		6		unimplemented
	3	1	MCLR		7		unimplemented

n.u.: not used