

Mikrocontroller Masterstation

Master-Station Betreuer : 8535

LED	1	PB0	T0	ADC0	PA0	40	
	2	PB1	T1	ADC1	PA1	39	
	3	PB2	AIN0	ADC2	PA2	38	
	4	PB3	AIN1	ADC3	PA3	37	
	5	PB4	SS	ADC4	PA4	36	
	6	PB5	MOSI	ADC5	PA5	35	
	7	PB6	MISO	ADC6	PA6	34	
	8	PB7	SCK	ADC7	PA7	33	
	9	RES	Reset	AREF	AREF	32	
	10	VCC	VCC	AGND	GND	31	
	11	GND	GND	AVCC	AVCC	30	
	12	XT2	XTAL2	TOSC2	PC7	29	LCD D7
	13	XT1	XTAL1	TOSC1	PC6	28	LCD D6
RxD (PC)	14	PD0	RXD		PC5	27	LCD D5
TxD (PC)	15	PD1	TXD		PC4	26	LCD D4
Taster Messen	16	PD2	INT0		PC3	25	LCD E
RxD <- Mess-Station	17	PD3	INT1		PC2	24	LCD RS
TxD -> Mess-Station	18	PD4	OC1B		PC1	23	SDA I2C
	19	PD5	OC1A		PC0	22	SCL I2C
Tristate (RW)	20	PD6	ICP	OC2	PD7	21	

Standardbeschaltung mit Quarz, Pullup am Resetpin

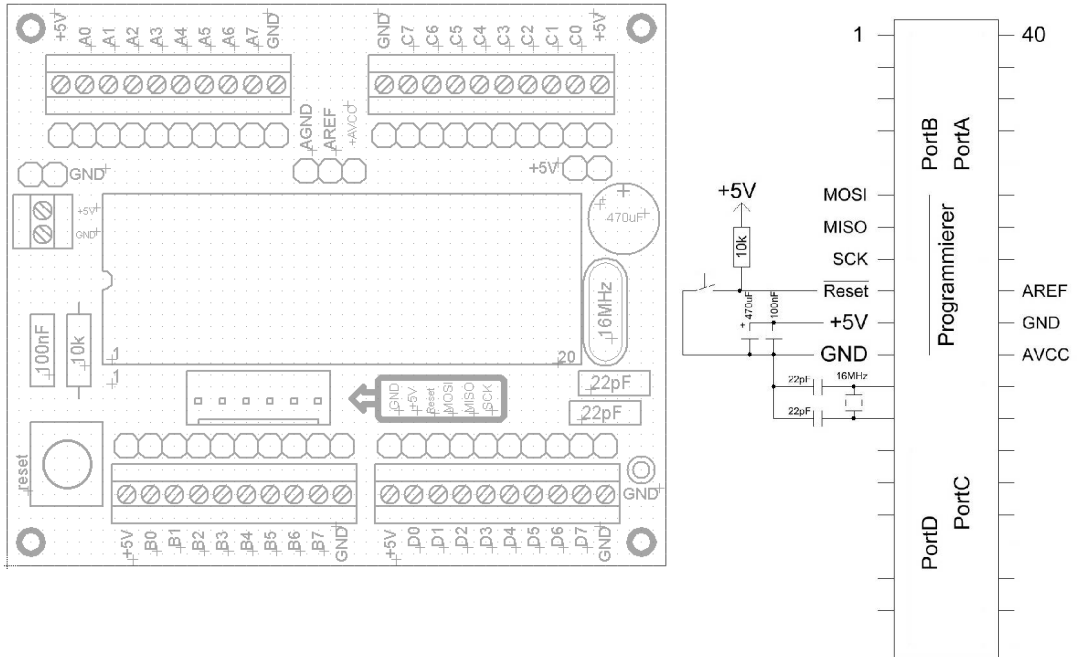
Programmierung mit BASCOM

ATMega16

			1	PB0	XCK/T0	ADC0	PA0	40		
			2	PB1	T1	ADC1	PA1	39		
			3	PB2	INT2/AIN0	ADC2	PA2	38		
			4	PB3	OC0/AIN1	ADC3	PA3	37		
			5	PB4	SS	ADC4	PA4	36		
			6	PB5	MOSI	ADC5	PA5	35		
			7	PB6	MISO	ADC6	PA6	34		
			8	PB7	SCK	ADC7	PA7	33		
			9	RES	Reset	AREF	AREF	32		
			10	VCC	VCC	GND	GND	31		
			11	GND	GND	AVCC	AVCC	30		
			12	XT2	XTAL2	TOSC2	PC7	29		
			13	XT1	XTAL1	TOSC1	PC6	28		
RS232	RxD		14	PD0	RXD	TDI	PC5	27	RS	LCD
RS232	TxD		15	PD1	TXD	TDO	PC4	26	E	LCD
Data driver	Tristate		16	PD2	INT0	TMS	PC3	25	DB4	LCD
RxD_DD	Data driver	Output	17	PD3	INT1	TCK	PC2	24	DB5	LCD
TxD_DD	Data driver	Signal input	18	PD4	OC1B	SDA	PC1	23	SDA	Real time clock
			19	PD5	OC1A	SCL	PC0	22	SCL	Real time clock
LCD	DB7		20	PD6	ICP	OC2	PD7	21	DB6	LCD

16MHz

Master-Station Schüler: Mega16



Achtung: hier müssen die Fuse Bits richtig gesetzt werden damit der Quarzoszillator aktiviert wird!

