

Mini-Programme für ATtiny13

LED-Blinker: ATtiny13

```
1. 'ATtiny13 driving LEDs
2. $regfile = "attiny13.dat"
3. $crystal = 1200000
4. $hwstack = 8
5. $swstack = 4
6. $framesize = 4
7. Config Portb = Output
8.
9. Do
10.  Portb.3 = 1
11.  Toggle Portb.4
12.  Waitms 500
13. Loop
14.
15. End
```

Zeitschalter ATtiny13

```
1. 'Timer 60 s
2. $regfile = "attiny13.dat"
3. $crystal = 1200000
4. $hwstack = 8
5. $swstack = 4
6. $framesize = 4
7.
8. Config Portb.4 = Output
9. Portb.3 = 1                                     'Pullup
10.
11. Do
12.  Do
13.  Loop Until Pinb.3 = 0
14.  Portb.4 = 1
15.  Waitms 60000
16.  Portb.4 = 0
17. Loop
18.
19. End
```

Weicher LED-Blinker

```
1. 'LED soft flasher
2. $regfile = "attiny13.dat"
3. $crystal = 1200000
4. $hwstack = 8
5. $swstack = 4
6. $framesize = 4
7. Dim I As Byte
8. Dim D As Integer
9.
10. Config Portb = Output
11. Config Timer0 = Pwm , Prescale = 1 , Compare A Pwm = Clear Down
12.
13. Do
14.     For I = 40 To 215
15.         If I < 128 Then
16.             D = I
17.             D = D * D
18.         End If
19.         If I > 127 Then
20.             D = 255 - I
21.             D = D * D
22.         End If
23.         D = D / 64
24.         Pwm0a = D
25.         Waitms 60
26.     Next I
27.     Waitms 800
28. Loop
29. End
```

Dämmerungsschalter ATtiny13

```
1. 'Dämmerungsschalter
2. $regfile = "attiny13.dat"
3. $crystal = 1200000
4. $hwstack = 8
5. $swstack = 4
6. $framesize = 4
7.
8. Dim U As Word
9. Config Adc = Single , Prescaler = Auto
10. Start Adc
11. Config Portb = 1
```

'Output B.0

```
12.
13. Do
14.   U = Getadc(3)
15.   If U < 400 Then Portb.0 = 0
16.   If U > 600 Then Portb.0 = 1
17.   Waitms 1000
18. Loop
19. End
```

Dreiphasen-Blinklicht ATiny13

```
1. 'Dreiphasen-Blinker 1500ms, 0,67 Hz
2. $regfile = "attiny13.dat"
3. $crystal = 1200000
4. $hwstack = 8
5. $swstack = 4
6. $framesize = 4
7. Config Portb = Output
8.
9. Do
10.  Portb.0 = 1
11.  Waitms 250
12.  Portb.3 = 0
13.  Waitms 250
14.  Portb.4 = 1
15.  Waitms 250
16.  Portb.0 = 0
17.  Waitms 250
18.  Portb.3 = 1
19.  Waitms 250
20.  Portb.4 = 0
21.  Waitms 250
22. Loop
23. End
```

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