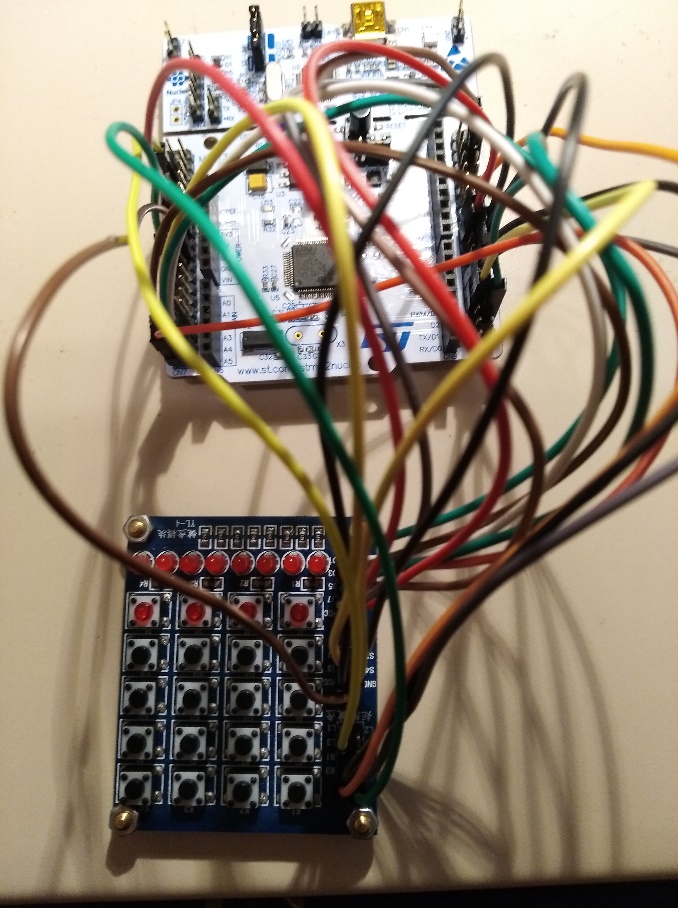
Parallele Ein- und Ausgabe mit LED-Keyboard und LCD-Display

|  |  |
| --- | --- |
| Nucleo | LCD |
| CN7 Pin 18 +5V | VCC |
| CN7 Pin 20 GND | GND |
| CN10 Pin 12 PA12 | SDA GPIO-Output  Opendrain Pullup Highspeed |
| CN10 Pin 14 PA11 | SCL GPIO-Output  Highspeed |
|  | LED Keyboard |
| CN7 Pin 38 PC0 | D1 GPIO-Output |
| CN7 Pin 36 PC1 | D2 GPIO-Output |
| CN7 Pin 35 PC2 | D3 GPIO-Output |
| CN7 Pin 37 PC3 | D4 GPIO-Output |
| CN10 Pin 34 PC4 | D5 GPIO-Output |
| CN10 Pin 6 PC5 | D6 GPIO-Output |
| CN10 Pin 4 PC6 | D7 GPIO-Output |
| CN10 Pin 19 PC7 | D8 GPIO-Output |
| CN7 Pin 16 3,3V | VCC |
| CN7 Pin 34 PB0 | S1 GPIO-Input kein Pull |
| CN10 Pin 24 PB1 | S2 GPIO-Input kein Pull |
| CN10 Pin 22 PB2 | S3 GPIO-Input kein Pull |
| CN10 Pin 31 PB3 | S4 GPIO-Input kein Pull |
| CN7 Pin 20 GND | GND |
| CN7 Pin 5 VDD | L1 |
| CN10 Pin 27 PB4 | R1 GPIO-Input Pulldown |
| CN10 Pin 29 PB5 | R2 GPIO-Input Pulldown |
| CN10 Pin 17 PB6 | R3 GPIO-Input Pulldown |
| CN7 Pin 21 PB7 | R4 GPIO-Input Pulldown |

Anschlussbelegung und Konfiguration:

Beachten Sie: Die LEDs sind Lowaktiv!!

Eventuell **mvn R0,R0** Instruktion zur Negation verwenden.



LED

Taste

LCD-Display i2C

SCL

SDA

VCC

GND

D2

D4

D6

D8

D1

D3

D5

D7

VCC

S2

S4

4

GND

S1

S3

VCC

L1

L3

R1

R3

L2

L4

R2

R4

PB0

PB1

PB2

PB3

PB4

PB5

PB6

PB7

PC0

PC1

PC2

PC3

PC4

PC5

PC6

PC7