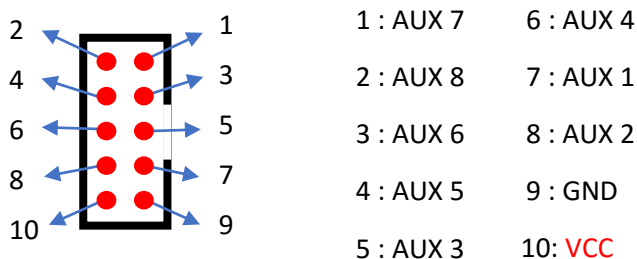


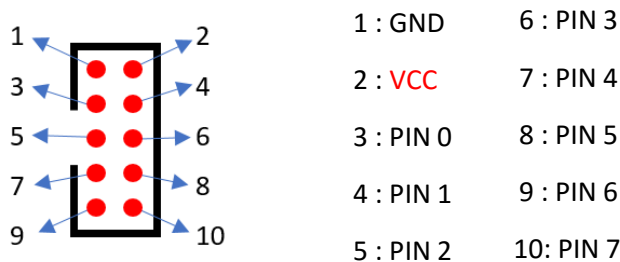
USER GUIDE MIKROKONTROLER

MK1 – MODUL AVR

- PINOUT PORT AUX.



- PINOUT PORT A, B, C, D.

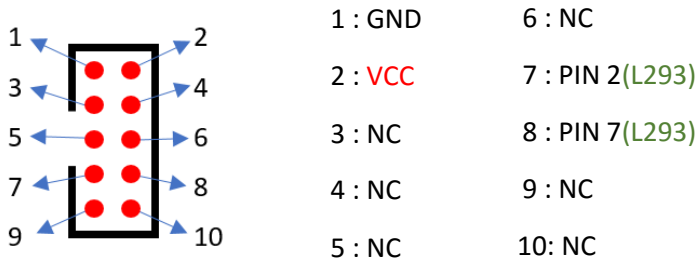


• AUX : "Auxiliary".

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MK2 – MODUL MOTOR DC

- PINOUT PORT DRIVER MOTOR



- PINOUT PORT DRIVER MOTOR (ALTERNATIF)



- Port Driver Motor harus dihubungkan dengan Port D pada modul AVR (Port Spesial untuk pengaturan PWM).
- NC : "Not Connected"

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MK3 – MODUL MOTOR STEPPER

- PINOUT PORT DRIVER MOTOR



- PINOUT PORT DRIVER MOTOR (ALTERNATIF)

PIN 2 (L293) IN 1  IN 2 PIN 7 (L293)

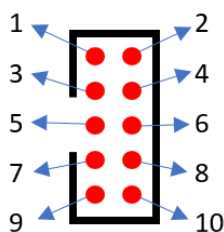
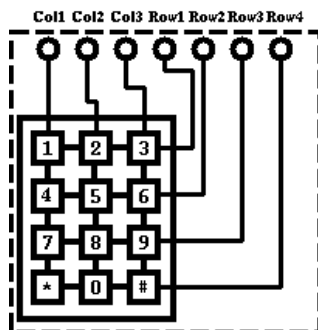
PIN 10 (L293) IN 3  IN 4 PIN 15 (L293)

- Port Driver Motor harus dihubungkan dengan Port D pada modul AVR (Port Spesial untuk pengaturan PWM).
- NC : "Not Connected"

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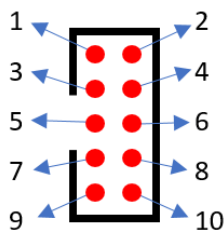
MK4 – MODUL INPUT

- PINOUT PORT KEYPAD 3x4



1 : GND	6 : Col3
2 : VCC	7 : Row2
3 : Col2	8 : Row1
4 : Col1	9 : Row4
5 : NC	10: Row3

- PINOUT PORT PUSH BUTTON



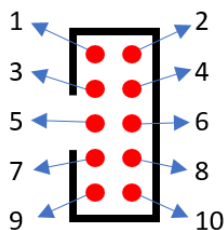
1 : GND	6 : PB.4
2 : VCC	7 : PB.5
3 : PB.1	8 : PB.6
4 : PB.2	9 : PB.7
5 : PB.3	10: PB.8

- PB** : "Push Button"
- NC** : "Not Connected"

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MK5 – MODUL OUTPUT

- PINOUT PORT 7-SEGMENT



1 : GND

2 : VCC

3 : PIN a

4 : PIN b

5 : PIN c

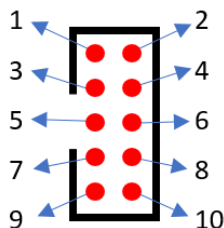
6 : PIN d

7 : PIN e

8 : PIN f

9 : PIN g

10: PIN h



1 : NC

2 : NC

3 : NC

4 : EN 1

5 : NC

6 : EN 2

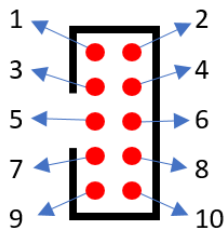
7 : NC

8 : EN 3

9 : NC

10: EN 4

- PINOUT PORT LCD



1 : GND

2 : VCC

3 : RS

4 : EN

5 : D4

6 : D5

7 : D6

8 : D7

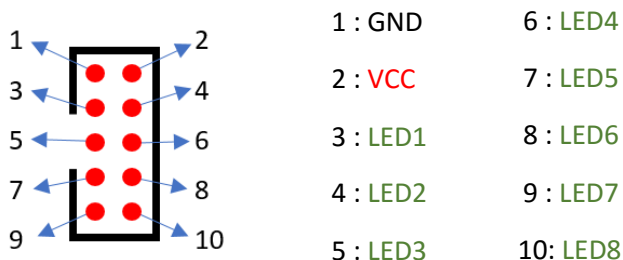
9 : NC

10: NC

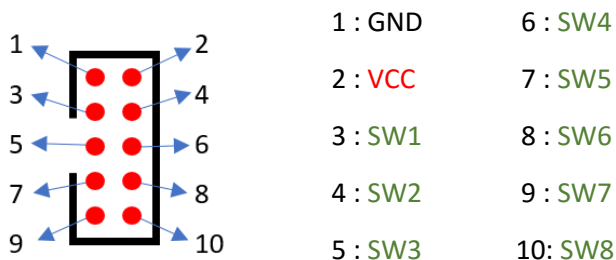
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MK6 – MODUL I/O

- PINOUT PORT LED



- PINOUT PORT SWITCH



- SW : "Switch"
- LED : "LED (Light Emitting Diode)"