Overview

DDR pin map

DDRA → KEY MATRIX = 0x0f

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bit | PA 7 | PA 6 | PA 5 | PA 4 | PA 3 | PA 2 | PA 1 | PA 0 |  |
|  | KEY L3 | KEY L2 | KEY L1 | KEY L0 | KEY C3 | KEY C2 | KEY C1 | KEY C0 | DDRA |
| In/Out | In | In | In | In | Out | Out | Out | Out |  |
| Init Val. |  |  |  |  |  |  |  |  |  |

DDRB → SWITCH, HEX DECIMAL INPUT(Rotary Switch) = 0x00

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bit | PB 7 | PB 6 | PB 5 | PB 4 | PB 3 | PB 2 | PB 1 | PB 0 |  |
|  | IN X3 | IN X2 | IN X1 | IN X0 | HEX A8 | HEX A4 | HEX A2 | HEX A1 | DDRB |
| In/Out | In | In | In | In | In | In | In | In |  |
| Init Val. |  |  |  |  |  |  |  |  |  |

DDRC → LED GREEN, Character LCD DISPLAY(16 x 2) = 0xff

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bit | PC 7 | PC 6 | PC 5 | PC 4 | PC 3 | PC 2 | PC1 | PC0 |  |
|  | LCD E | LCD RW | LCD RS | LED Y0 | LCD D7 | LCD D6 | LCD D5 | LCD D4 | DDRC |
| In/Out | Out | Out | Out | Out | Out | Out | Out | Out |  |
| Init Val. |  |  |  | 1 |  |  |  |  |  |

DDRD → LED RED, UART(RX, TX), STEP MOTOR, SPEAKER = 0xfe

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bit | PD 7 | PD 6 | PD 5 | PD 4 | PD 3 | PD 2 | PD1 | PD0 |  |
|  | STEP | STEP | SPK | LED Y2 | STEP B | STEP A | TXD | RXD | DDRD |
| In/Out | Out | Out | Out | Out | Out | Out | Out | In |  |
| Init Val. |  |  |  | 1 |  |  |  |  |  |