|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Px.**0** | Px.**1** | | | Px.**2** | | Px.**3** | | Px.**4** | | Px.**5** | | Px.**6** | | Px.**7** |
| Port **E** | **INT4~7**  **UART1 AIN**  **OC3A,B,C**  **T3**  **ICP3** | RS485 Interface | | | | | | PWM>DAC | | Four Buttons/Leds[[1]](#footnote-2) | | | | | | |
| UART1 with Hand-checking and LEDs Indicators | | | | | | | |  | |  | |  | |  |
|  | | | | | |  | |  | |  | |  | |  |
| 8-bit DAC Interface | | | | | | | | | | | | | | |
| External Port Connector for further connecting and can be set to Pull Up/Down Resistor | | | | | | | | | | | | | | |
| Port **B** | **SPI**  **OC1A,B**  **OC0,2**  **OC1C** |  | Programmer | | | | | | |  | |  | |  | |  |
| MMC/SD Card SPI Interface | | | | | | | | Speaker | | IR Sender | | PWM | | IR Receiver |
| Hexadecimal Keypad | | | | | | | | | | | | | | |
| External Port Connector for further connecting and can be set to Pull Up/Down Resistor | | | | | | | | | | | | | | |
| Port **D** | **INT0~3**  **UART2 TWI**  **T1~2**  **ICP1** | Four Buttons/Leds[[2]](#footnote-3) | | | | | | | | ICP1 | | Relay1 | | T1 | | Relay2 |
| PS2 SCK |  | | | UART2 | | | |  | |  | |  | |  |
| RTC & EEPROM | | | | | | | |  | |  | |  | |  |
| External Port Connector for further connecting and can be set to Pull Up/Down Resistor | | | | | | | | | | | | | | |
| Port **C** | **Ex.MI-H** | DS1820 |  | | | GLCD Control Bus | | | | | | | | | | |
|  |  | | | LCD | | | | | | | | | | |
|  |  | | |  | |  | | Quad Seven Segment Control Lines | | | | | | |
| Dual Led-Matrix Display Data Bus | | | | | | | | | | | | | | |
| External Port Connector for further connecting and can be set to Pull Up/Down Resistor | | | | | | | | | | | | | | |
| Port **A** | **Ex.MI-L** | GLCD Data Bus | | | | | | | | | | | | | | |
| UART2 Hand-checking | | | | Basic Card | | | | | |  | |  | |  |
| Quad Seven Segment Data Bus | | | | | | | | | | | | | | |
| External Port Connector for further connecting and can be set to Pull Up/Down Resistor | | | | | | | | | | | | | | |
| Port **F** | **ADC0~7**  **JTAG** | LDR  Resistor | | | NTC  Resistor | | Pressure  sensor | | Variable  Resistor | | Variable  Resistor | | 4 Switches  On a line | | Temperature Sensor | |
|  | | |  | |  | | JTAG Interface | | | | | | | |
| Port **G** | **TOSC**  **WR/RD** | Dual Led-Matrix Display  Control Lines | | | | RC Circuit | | 23KHZ Crystal | | | | x | | x | | x |
| ASK TR | | ASK RE | | PS2 Data | | x | | x | | x | | x | | x |

1. Buttons for Interrupt 4~7 can be set to VCC or GND by Jumper, connected with led indicators. [↑](#footnote-ref-2)
2. Buttons for Interrupt 0~3 can be set to VCC or GND by Jumper, connected with led indicators. [↑](#footnote-ref-3)