IO Module

ATmega328P-P

GND 8
VCC 7
AVCC 20
AREF 21

PD7 13, PD6 12, PD5 11, PD4 6, PD3 5, PD2 4, PD1 3, PD0 2
RESET/PC6 1, PC5 28, PC4 27, PC3 26, PC2 25, PC1 24, PC0 23
XTAL2/PB7 10, XTAL1/PB6 9, PB5 19, PB4 18, PB3 17, PB2 16, PB1 15, PB0 14

RESET

DATABUS_LOW

KB_CLK
EN_OUT
EN_IN
KB_DATA

K-FLAG

+5V

D 2, PRE 7, VCC 8, Q 5
C 1, CLR 6, GND 4, QI 3

+5V

D 2, PRE 7, VCC 8, Q 5
C 1, CLR 6, GND 4, QI 3

+5V

CLR_K
RESET
M_CLK

LCD Screen

74HC595

GND 13, RCLK 12, SRCLR 10, SRCLK 11, SER 14
GND 8, VCC 16

QH' 9, QH 7, QG 6, QF 5, QE 4, QD 3, QC 2, QB 1, QA 15

+5V

DB7 14, DB6 13, DB5 12, DB4 11, DB3 10, DB2 9, DB1 8, DB0 7
Vo 3, E 6, R/W 5, RS 4

VSS 1
VDD 2

16x2

A/VEE 15, K 16
GND

220
+5V

BRIGHTNESS CONTROL
10K
GND
GND

SCROLL DOWN
+5V
10K
GND

SCROLL UP
10K
+5V
GND

Sheet: /
File: io_module.kicad_sch

Title:

Size: A4   Date:
KiCad E.D.A. 8.0.9

Rev:
Id: 1/1