

NOTE: THE TOOLCHAIN DOES NOT YET SUPPORT 328PB (iom328pb.h will show up with avr-libc when it does)

WARNING: SDA1 AND SCL1 ARE 0V AND 5V WHEN ATMEGA328P IS USED

PORT BIT 328P;328PB

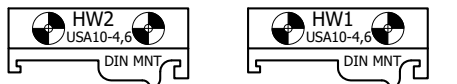
| | | |
|------|----|---------------------------------|
| SDA1 | 1 | 0V; SDA1/ICP4 E0 (*) * 2568 TX3 |
| SCL1 | 2 | +5V; SCL1/T4 E1 |
| RX | 3 | RX0 D0;D0 |
| TX | 4 | TX0 D1;D1 |
| IO2 | 5 | INT0 D2; INT0/OC3B D2 |
| IO3 | 6 | OC2B/INT1 D3; OC2B/INT1 D3 |
| IO4 | 7 | T0 D4;T0 D4 |
| IO5 | 8 | T1/OC0B D5; T1/OC0B D5 |
| IO6 | 9 | OC0A D6;OC0A D6 |
| IO7 | 10 | D7;D7 |

| | | |
|------|----|-------------------------------|
| IO8 | 10 | ICP1 B0; ICP1 B0 |
| IO9 | 9 | OC1A B1;OC1A B1 |
| SS | 8 | SS/OC1B B2;SS/OC1B B2 |
| MISO | 7 | MISO/OC2A B3;MISO/OC2A/TX1 B3 |
| SCK | 6 | SCK B4; SCK B4 |
| IOV | 5 | GND |
| NC | 4 | AREF |
| SDA | 3 | ADC4/SDA C4; ADC4/SDA0 C4 |
| SCL | 2 | ADC5/SCL C5; ADC5/SCL0 C5 |

| | | |
|------|----|---------------------------|
| ADC0 | 1 | ADC0 C0;ADC0/MISO1 C0 |
| ADC1 | 2 | ADC1 C1;ADC1/SCK1 C1 |
| ADC2 | 3 | ADC2 C2;ADC2 C2 |
| ADC3 | 4 | ADC3 C3;ADC3 C3 |
| NC | 5 | ADC4/SDA C4; ADC4/SDA0 C4 |
| NC | 6 | ADC5/SCL C5; ADC5/SCL0 C5 |
| ADC6 | 7 | ADC6; ADC6/ICP3/SS1 E2 |
| ADC7 | 8 | ADC7; ADC7/T3/MOSI1 E3 |
| IOV | 9 | 0V |
| NC | 10 | NC (**) |

| | | |
|----|---|-------|
| J6 | 1 | VIN |
| | 2 | GND |
| | 3 | GND |
| | 4 | +5V |
| | 5 | +3V3 |
| | 6 | RESET |
| | 7 | IOREF |
| | 8 | NC |

Reference Designators:
B Battery
C Capacitor
D Diode
F Fuse/Breaker
H Hardware & Outline
J Connector/Link
K Relay
L Inductor
M Motor (and Related)
P Power supply
Q Transistor
R Resistor
S Switch
T Transformer
TP Test point
U Integrated circuit/module
Y Crystal or oscillator



ARDUINO UNO R3 PIN-COMPATIBLE

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|----------------------------------------------------------|--|---------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|
| RPU BUS | | RPUBUS.ORG GITHUB.COM/EPCCS | | Copyright (C) 2017 Ronald Sutherland Released under the Creative Commons Attribution-ShareAlike 4.0 International (CC BY-SA 4.0) http://creativecommons.org/licenses/by-sa/4.0/ | | SIZE B |
| BK black BN brown RD red OG orange YE yellow | | GN green BU blue VT violet GY gray WH white | | Symbols = RD Names = BU Values = GY Label/info = VT Buses = Dark BU Net/Wire = GN Guide = YE | | DATE: 9/20/17 |
| ^7 | | RM LT3652 | | 9/20/17 | | NAME: RON S |
| ^6 | | ALL CS FROM CS_PWR ADC6 TO PV_RAW | | 1/16/17 | | ADDR: 1627 W INVERNESS DR TEMPE AZ 85282 |
| ^5 | | ADD 5V PLUG, PULL UP/DWN IO2, 10K B=3380 CONN | | 10/16/16 | | E-MAIL: ronald.sutherland@gmail.com |
| ^4 | | 12V SLA /W CURR SENS PLUG IO 2:7, ADC 0:1, ICP | | 8/27/16 | | PHONE: (480) 967-2851 |
| ^3 | | ISLAND FOR FAST CHANG CURRENT TO REDUCE EMI | | 3/23/16 | | |
| REV | | BUGZILLA ISSUE # | | JDATE 1/1 | | DESCRIPTION: PC, ICP+CS, 2 ADC+CS 6 DIO IN 2 GROUPS+CS |
| | | | | | | MODEL: RPUNO |
| | | | | | | DRAWING: 14140 |
| | | | | | | 9/25/2017 1:07 PM |