



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

0V_328P 1
5V_328P 2
RX 3
TX 4
IO2 5
IO3 6
IO4 7
IO5 8
IO6 9
IO7 10

0V; SDA1/ICP4 E0 (*) * 2568 TX3
+5V; SCL1/T4 E1
RX0 D0;D0
TX0 D1;D1
INT0 D2; INT0/OC3B D2
OC2B/INT1 D3; OC2B/INT1 D3
T0 D4;T0 D4
T1/OC0B D5; T1/OC0B D5
OC0A D6;OC0A D6
D7;D7

PPPC101LFBN
PPPC101LFBN

IO8 10
IO9 9
SS 8
MOSI 7
MISO 6
SCK 5
IOV 4
NC 3
SDA 2
SCL 1

ICP1 B0; ICP1 B0
OC1A B1;OC1A B1
SS/OC1B B2;SS/OC1B B2
MOSI/OC2A B3;MOSI/OC2A/TX1 B3
MISO B4; MISO/RX1 B4
SCK B5; SCK B5
GND
AREF
ADC4/SDA C4; ADC4/SDA0 C4
ADC5/SCL C5; ADC5/SCL0 C5

PPPC101LFBN
PPPC101LFBN

ADC0 1
ADC1 2
ADC2 3
ADC3 4
NC 5
NC 6
ADC6 7
ADC7 8
IOV 9
NC 10

ADC0 C0;ADC0/MISO1 C0
ADC1 C1;ADC1/SCK1 C1
ADC2 C2;ADC2 C2
ADC3 C3;ADC3 C3
ADC4/SDA C4; ADC4/SDA0 C4
ADC5/SCL C5; ADC5/SCL0 C5
ADC6; ADC6/ICP3/SS1 E2
ADC7; ADC7/T3/MOSI1 E3
0V
NC (**)

** 2568 ADC8

PPPC081LFBN

J5 1
2
3
4
5
6
7
8

VIN
GND
GND
+5V
+3V3
RESET
IOREF
IOREF
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

HW2 USA10-4,6
DIN MNT

HW1 USA10-4,6
DIN MNT

ARDUINO UNO R3
PIN-COMPATIBLE

CURRENT SOURCE FOR LOOPS
LEVEL GUARDED ANALOG INPUT
WITH PULL DOWN

CURR SOURCE FOLDS BACK DUE TO SELF HEATING MAY FAIL IF DROP > TBD 24V IS MY GUESS FOR NOW

A CAT5 PAIR WILL DROP >6V PER 100M AT 350mA

J2.1 1
J2.2 2
J2.3 3
J2.4 4
J2.5 5
J2.6 6

+CH1
-CH1
+CH2
-CH2
+CH3
-CH3

PST1,0/6-3,5
J2.6 6
-CH3

J1.1 1
J1.2 2
J1.3 3
J1.4 4
J1.5 5
J1.6 6

+CH4
-CH4
+CH5
-CH5
+CH6
-CH6

PST1,0/6-3,5
J1.6 6
-CH6

RPU BUS		RPU.BUS.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 Busses = Dark BU Net/Wire = GN Guide = YE		
DATE: 11/19/17		NAME: RON S		ADDR: 1627 W INVERNESS DR TEMPE AZ 85282		
Edit		Chk		E-MAIL: ronald.sutherland@gmail.com		
TO:		FROM:		PHONE: (480) 967-2851		
DESCRIPTION:		MODEL:		DRAWING:		
PC, 6 CC LED DVR		RPU.LUX		17323		
REV		BUGZILLA ISSUE #		JDATE		
1/1		11/19/17		12/2/2017 3:35 PM		