

NOTE: PV POWER WILL CONNECT THE 10K BATTERY BUT THE MCU WILL EXPERIENCE A BROWN OUT SO DO NOT DISCONNECT DURING THE DAY.

ECS-160-20-3X-TR
16MHZ +/- 30PPM
STABILITY AND TOLERANCE
CRYSTAL CAPACITORS:
15PF = 5PF +
(20PF*20PF)/(20PF+20PF)

NOTE: A CRYSTAL IS USED SO THE AVR TIMERS HAVE CRYSTAL ACCURACY.

map for pins_arduino.h

PA0 (D 24) AI 0
PA1 (D 25) AI 1
PA2 (D 26) AI 2
PA3 (D 27) AI 3
PA4 (D 28) AI 4
PA5 (D 29) AI 5
PA6 (D 30) AI 6
PA7 (D 31) AI 7

PB0 (D 4)
PB1 (D 23) T1 # open IO5
PB2 (D 22) INT2
PB3 (D 6) OC0A
PB4 (D 5) OC0B/SS # jmp IO5
PB5 (D 14) ICP3/MOSI
PB6 (D 12) OC3A/MISO
PB7 (D 13) OC3B

PC0 (D 21) SCL
PC1 (D 20) SDA
PC2 (D 19) TCK
PC3 (D 18) TMS
PC4 (D 17) TDO
PC5 (D 16) TDI
PC6 (D 15)
PC7 (D 7)

PD0 (D 0) RX0
PD1 (D 1) TX0
PD2 (D 2) RX1/INT0
PD3 (D 3) TX0/INT1
PD4 (D 10) OC1B
PD5 (D 9) OC1A
PD6 (D 8) OC2B/ICP1
PD7 (D 11) OC2A

A0	A1	A2	E3	E2	E1	DESC
X	X	X	0V	X	X	: ALL DISABLED
X	X	X	5V	X	X	: ALL DISABLED
X	X	X	5V	X	X	: ALL DISABLED
X	X	X	5V	X	X	: ENABLE 17mA
5V	0V	0V	5V	0V	0V	: BOOST
0V	5V	0V	5V	0V	0V	: SET K1
5V	5V	0V	5V	0V	0V	: RESET K1
0V	0V	5V	5V	0V	0V	: SET K2
5V	0V	5V	5V	0V	0V	: RESET K2
0V	5V	5V	5V	0V	0V	: SET K3
5V	5V	5V	5V	0V	0V	: RESET K3

K7 AND CL8 USE:

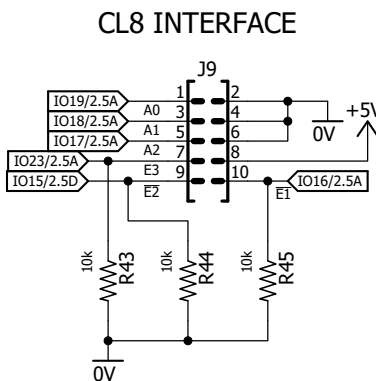
A0 = IO19
A1 = IO18
A2 = IO17

K[1:3]:
E3 = IO15
nE2 = IO16
nE1 = IO23

K[4:7]:
E3 = IO16
nE2 = IO15
nE1 = IO23

CL8:
E3 = IO23
nE2 = IO15
nE1 = IO16

K7 SHCEMATIC IS ON NEXT SHEET



ARDUINO UNO R3
PIN-COMPATIBLE

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: 4/22/17 NAME: RON S ADDR: 1627 W INVERNESS DR TEMPE AZ 85282 E-MAIL: ronald.sutherland@gmail.com PHONE: (480) 967-2851	
^2		RM JTAG, RM CL8 HW, ICP1 SAME AS ICP3, 12V SLA		4/22/17		DESCRIPTION: 12V PVCC, 7 K LH, 2 ICP, 4 ADC /W LOOP, 6 D IO	
^1		ADD ^0A, CC01^4, CURRENT LOOPS		3/5/16		MODEL: IRRIGATE7	
REV		BUGZILLA ISSUE #		JDATE 1/2		DRAWING: 14320	
						5/6/2017 10:20 PM	

