







	1	2	3	4	5	6	7	8	
A	D0 UART.RX D1 UART.TX NC D5 M1PWM D2 M2PWM NC NC NC	U4 2 PE0 (RXD0/PCINTS PE1 (TXD0) PE2 (XCK0/AIN0) PE3 (OC3A/AIN1) PE4 (OC3B/INT4) PE5 (OC3C/INT5) PE6 (T3/INT6) PE7 (CLKO/ICP3/IN	PF1 (ADC1) PF2 (ADC2) PF3 (ADC3) PF4 (ADC4/TCK) PF5 (ADC5/TMS) PF6 (ADC6/TDO)	95 5VHI_PG	A1 5VHI_VOLTAGE 5VHI_CURRENT	VBAT_VOLTAGE 5VHI_VOLTAGE 5VHI_CURRENT 5VHI_PG 5VLO_CURRENT	Motor Control MIENA MIENB MIINA MIINB MINB MIPWM MISENSE Motor Control ENA ENB INA INA INB INB PWM SENSE	MCTL1	A
В	D17 SVHI_EN D16 SENSE_EN NC D6 D6 D7 D7 D8 D8 NC NC	13 PH0 (RXD2) PH1 (TXD2) PH2 (XCK2) PH3 (OC4A) PH3 (OC4B)	PK0 (ADC8/PCINT16) PK1 (ADC9/PCINT17) PK2 (ADC10/PCINT18) PK3 (ADC11/PCINT18) PK4 (ADC12/PCINT20) PK5 (ADC13/PCINT21) PK6 (ADC14/PCINT22) PK7 (ADC15/PCINT23)	89 A8 A8 88 A9 A9 87 A10 A10 86 A11 A11 85 A12 A12 84 A13 A13 83 A14 A14 162 A15 A15	5VHI_EN SENSE_EN SBC_SHDN SPI_EN	SENSE_EN SBC_SHDN SPI_EN	MOTOR CONTROL M2ENA M2ENB M2INA M2INA M2INA M2PWM M2SENSE MOTOR CONTROL ENA ENB INA INA INB M2PWM SENSE	MCTL2	В
C	D53 SS D52 SCK D51 MOS1 D50 MISO D10 SBC SHDN D11 D11 D12 D12 D13 D13	19	PA2 (AD2) PA3 (AD3) PA4 (AD4) PA5 (AD5) PA6 (AD6)	78	GPIO D6 D7 D8 D8 D9 D9 D11 D12 D13 D13 D42 D42 D42		Motor Control M3ENA M3ENB M3INA M3INB M3PWM M3SENSE Motor Control ENA ENB INA INA INB INB SENSE	MCTL3	С
D	D49 D49 D48 D48 D47 D47 D46 D46 D45 D45 D44 D44 D43 D43 D42 D42	37 PL1 (ICPS) 38 PL2 (T5) 38 PL3 (OC5A) 40 PL4 (OC5B) 41 PL5 (OC5C)	PJ7 PJ6 (PCINT15) PJ5 (PCINT14) PJ4 (PCINT13) PJ4 (PCINT13) PJ3 (PCINT12) PJ2 (XCK3/PCINT11) PJ1 (TXD3/PCINT10) PJ0 (RXD3/PCINT9)	79 NC 69 NC 68 NC 66 NC 66 NC 64 D14 63 D15	D43 D43 D44 D45 D46 D47 D47 D48 D49 D49 A8 A 8	GPIO	UART.TX UART.RX TX RX I2C SCL SDA SDA SDA	UART VIZC	D
	D21 SCL D20 SDA D19 D18 NC NC NC NC D38	43 PD0 (SCL/INT0) 44 PD1 (SDA/INT1) 45 PD2 (RXD1/INT2) 46 PD3 (TXD1/INT3) 47 PD4 (ICP1) 48 PD5 (XCK1) 49 PD6 (T1) 50 PD7 (T0)	PC7 (A15) PC6 (A14) PC5 (A13) PC4 (A12) PC3 (A11) PC2 (A10) PC1 (A9) PC0 (A8)	60 SS2 D30 \$9 M2INA D31 \$8 M2ENA D32 \$7 M2ENB D33 \$6 M2INB D34 \$5 SS3 D35 \$4 M3INA D36 \$3 M3ENA D37	A9 A9 A9 A10 A11 A12 A13 A14 A15 A14		SCK SCK MOSI MISO MISO	$\overline{S1}$ $\overline{SS1}$	D
Е	D4 SPLEN NC NC D39 M1INB D40 M3ENB D41 M3INB	1 PG5 (OC0B) 29 PG4 (TOSC1) 28 PG3 (TOSC2) PG2 (ALE) 52 PG1 (PD)	VCC VCC VCC VCC AVCC AVCC	80 +5VLO 61 31 10 X1	MCU_SUPPORT Microcontroller Support VCC TAL1 XTAL1 XTAL1 AVCC AREF	ort.SchDoc	<u>s</u> <u>s</u>	$\begin{array}{c c} \hline S2 & \times & \overline{SS2} \\ \hline S3 & \times & \overline{SS3} \\ \hline S & \times & \overline{SS} \end{array}$	Е
F	XTAL1 XTAL2	30 RESET 34 33 XTAL1 XTAL2 ATmega2560-16AU	GND GND GND GND GND	99 81 62 32 11 GND	Title: Microco	Drawn By: Joseph I		Tennis Butler	F
	1	2	3	4	5	6	7	8	









