RobotDyn®
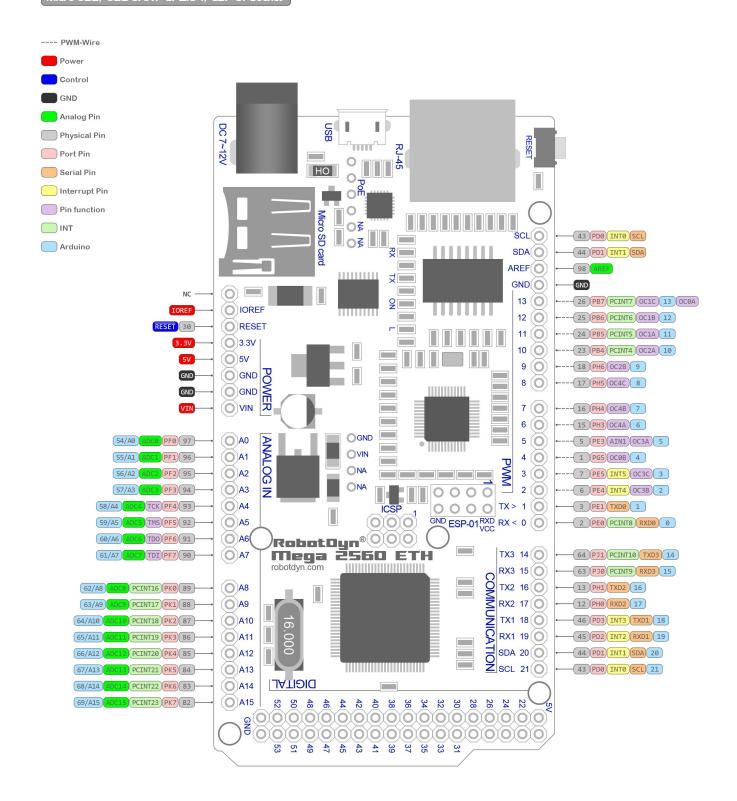www.robotdyn.com
PINOUT DIAGRAM

MEGA 2560 ETH, R3,
ATmega2560+W5500, Micro-SD card reader,
Micro-USB, USB-UART CP2104, ESP-01 socket

---- PWM-Wire

- Power
- Control
- GND
- Analog Pin
- Physical Pin
- Port Pin
- Serial Pin
- Interrupt Pin
- Pin function
- INT
- Arduino

DC 7~12V
USB
RJ-45
RESET
HO
PoE
Micro SD card
NA NA
RX
TX
ON
L

SCL ← 43 | PD0 | INT0 | SCL
SDA ← 44 | PD1 | INT1 | SDA
AREF ← 98 | AREF
GND ← GND
13 ---- 26 | PB7 | PCINT7 | OC1C | 13 | OC0A
12 ---- 25 | PB6 | PCINT6 | OC1B | 12
11 ---- 24 | PB5 | PCINT5 | OC1A | 11
10 ---- 23 | PB4 | PCINT4 | OC2A | 10
9 ---- 18 | PH6 | OC2B | 9
8 ---- 17 | PH5 | OC4C | 8
7 ---- 16 | PH4 | OC4B | 7
6 ---- 15 | PH3 | OC4A | 6
5 ---- 5 | PE3 | AIN1 | OC3A | 5
4 ---- 1 | PG5 | OC0B | 4
3 ---- 7 | PE5 | INT5 | OC3C | 3
2 ---- 6 | PE4 | INT4 | OC3B | 2
TX > 1 ← 3 | PE1 | TXD0 | 1
RX < 0 ← 2 | PE0 | PCINT8 | RXD0 | 0

NC
IOREF | IOREF
RESET 30 | RESET
3.3V | 3.3V
5V | 5V
GND | GND
GND | GND
VIN | VIN

POWER

54/A0 | ADC0 | PF0 | 97 → A0
55/A1 | ADC1 | PF1 | 96 → A1
56/A2 | ADC2 | PF2 | 95 → A2
57/A3 | ADC3 | PF3 | 94 → A3
58/A4 | ADC4 | TCK | PF4 | 93 → A4
59/A5 | ADC5 | TMS | PF5 | 92 → A5
60/A6 | ADC6 | TDO | PF6 | 91 → A6
61/A7 | ADC7 | TDI | PF7 | 90 → A7

62/A8 | ADC8 | PCINT16 | PK0 | 89 → A8
63/A9 | ADC9 | PCINT17 | PK1 | 88 → A9
64/A10 | ADC10 | PCINT18 | PK2 | 87 → A10
65/A11 | ADC11 | PCINT19 | PK3 | 86 → A11
66/A12 | ADC12 | PCINT20 | PK4 | 85 → A12
67/A13 | ADC13 | PCINT21 | PK5 | 84 → A13
68/A14 | ADC14 | PCINT22 | PK6 | 83 → A14
69/A15 | ADC15 | PCINT23 | PK7 | 82 → A15

ANALOG IN

GND
VIN
NA
NA

ICSP
ESP-01 | GND | RXD VCC

RobotDyn®
Mega 2560 ETH
robotdyn.com

16.000

DIGITAL

PWM

COMMUNICATION

TX3 14 ← 64 | PJ1 | PCINT10 | TXD3 | 14
RX3 15 ← 63 | PJ0 | PCINT9 | RXD3 | 15
TX2 16 ← 13 | PH1 | TXD2 | 16
RX2 17 ← 12 | PH0 | RXD2 | 17
TX1 18 ← 46 | PD3 | INT3 | TXD1 | 18
RX1 19 ← 45 | PD2 | INT2 | RXD1 | 19
SDA 20 ← 44 | PD1 | INT1 | SDA | 20
SCL 21 ← 43 | PD0 | INT0 | SCL | 21

GND
52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22
53 51 49 47 45 43 41 39 37 35 33 31

5V

RobotDyn®
11 Sep 2018

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Legend:

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- Power
- Control
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- Analog Pin
- Physical Pin
- Port Pin
- Serial Pin
- Interrupt Pin
- Pin function
- INT
- Arduino

D10 — CS W5500
D9 — CD DET
D8 — INT W5500
D7 — RST W5500

NC   NC
GND   RXD 14

15 TXD   VCC

ESP-01

CHPD   NC

SCK PCINT1 PB1 20   22 PB3 PCINT3 MISO
RESET 30   ICSP   1
                  22 PB3 PCINT3 MISO

GND   5V

21 PB2 PCINT2 MOSI

5V   5V
5V   5V

22 AD0 PA0 78	22	77 PA1 AD1 23
24 AD2 PA2 76	24	75 PA3 AD3 25
26 AD4 PA4 74	26	73 PA5 AD5 27
28 AD6 PA6 72	28	71 PA7 AD7 29
30 A15 PC7 60	30	31	59 PC6 A14 31
32 A13 PC5 58	32	33	57 PC4 A12 33
34 A11 PC3 56	34	35	55 PC2 A10 35
36 A9 PC1 54	36	37	53 PC0 A8 37
38 T0 PD7 50	38	39	70 PG2 ALE 39
40 RD PG1 52	40	41	51 PG0 WR 41
42 PL7 42	42	43	41 PL6 43
44 OC5C PL5 40	44	45	39 PL4 OC5B 45
46 OC5A PL3 38	46	47	37 PL2 T5 47
48 ICP5 PL1 36	48	49	35 PL0 ICP4 49
50 MISO PCINT3 PB3 22	50	51	21 PB2 PCINT2 MOSI 51
52 SCK PCINT1 PB1 20	52	53	19 PB0 PCINT0 SS 53
GND		GND

GND