+5

R2
ERA8AEB103V

S1
TS-1187A-B-A-B

RESET

| A1 | COM_1 | COM_2 | B1 |
| C1 | NO_1 | NO_2 | D1 |

C3
100nF

GND

D3
TX3
RX3

SCL
SDA
TX2
RX2

IC1
ATMEGA328P-AU

32 31 30 29 28 27 26 25

PD2_(INT0/PCINT18)
PD1_(TXD/PCINT17)
PD0_(RXD/PCINT16)
PC6_(RESET/PCINT14)
PC5_(ADC5/SCL/PCINT13)
PC4_(ADC4/SDA/PCINT12)
PC3_(ADC3/PCINT11)
PC2_(ADC2/PCINT10)

5V

+5

PWM1
EN1

+5

1 (PCINT19/OC2B/INT1)_PD3
2 (PCINT20/XCK/T0)_PD4
3 GND_1
4 VCC_1
5 GND_2
6 VCC_2
7 (PCINT6/XTAL1/TOSC1)_PB6
8 (PCINT7/XTAL2/TOSC2)_PB7

PC1_(ADC1/PCINT9) 24
PC0_(ADC0/PCINT8) 23
ADC7 22
GND_3 21
AREF 20
ADC6 19
AVCC 18
PB5_(SCK/PCINT5) 17

TX1
RX1
A/D1

A/D2

+5

SCK

GND

C4
10nF

GND

C5
10nF

C6
100nF

GND

(PCINT21/OC0B/T1)_PD5
(PCINT22/OC0A/AIN0)_PD6
(PCINT23/AIN1)_PD7
(PCINT0/CLKO/ICP1)_PB0
(PCINT1/OC1A)_PB1
(PCINT2/SS/OC1B)_PB2
(PCINT3/OC2A/MOSI)_PB3
(PCINT4/MISO)_PB4

9 10 11 12 13 14 15 16

16MHz
GND
GND

1 3
2 4

C7
C8

GND

MOSI
MISO

PWM2
EN2
Alert1
Alert2
D1
D2

J1
87911-0611

+5

MOSI

2	2	1	1	MISO
4	4	3	3	SCK
6	6	5	5	RESET

GND

Comment	Description	Designator	Footprint	LibRef	Quantity