5V
P1
3
2
1
PIR
2081774
GND

U1
nRST 1 RST TXD 16 TXD
ADC 2 ADC RXD 15 RXD
EN 3 CH_PD GPIO5 14 GPIO5
GPIO16 4 GPIO16 GPIO4 13 GPIO4
GPIO14 5 GPIO14 GPIO0 12 GPIO0
GPIO12 6 GPIO12 GPIO2 11 GPIO2
GPIO13 7 GPIO13 GPIO15 10 GPIO15
8 VCC GND 9
ESP-07

RED
BLUE
GREEN
PIR

C1 C2
100uF 100nF
3.3V
GND

3.3V
P3
TXD 1
RXD 2
GPIO0 3
GND 4
nRST 5
6
5V 7
Header 7

U3
Power
Signal
GND
HC-SR501

5V
3.3V
C3
0.1uF
3
4
2
1
Vin Vout Vout GND
U2
AMS1117-3.3
C4
0.1uF
GND

GREEN D1 R1 100
BLUE D2 R2 100
RED D3 R3 100
GND

3.3V
R4 10kR GPIO0
R5 10kR GPIO2
R6 10kR EN
R7 10kR nRST
R8 10kR GPIO15
C5
399-1075-1-ND
GND
GND

Project: Pir.PrjPcb
Title: *
Size: A4
Revision: 2e01123d0892bdd3e963adf68e781ea5ac
Date: 11/3/2025
Sheet 1 of 1
Author: *
Email:

INOTEK
ENGINEERING

Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	TAJB107M006RNJ	CAP TANT 100UF 20% 6.3V SMD	C1	1	Kyocera AVX	TAJB107M006RNJ	Volume Production	Digi-Key	478-3877-1-ND		
	C1608X7R1H104K	Cap, 100 nF 50 V, Ceramic, X7R, 0603	C2	1	TDK	C1608X7R1H104K080AA	Volume Production	Digi-Key	445-5666-1-ND		
	CC0603KPX7R7BB104	CAP CER 0.1UF 16V X7R 0603	C3, C4	2	Yageo	CC0603KPX7R7BB104	Volume Production	Digi-Key	311-1335-6-ND		
	399-1075-1-ND	CAP CER 470PF 50V X7R 0603	C5	1	KEMET	C0603C471K5RACTU	Volume Production	Digi-Key	399-1075-1-ND		
	150060RS75000	WURTH ELEKTRONIK - 150060RS75000 - LED, 0603, RED, 250MCD, 625NM	D1, D2, D3	3	Wurth Electronics	150060RS75000	Volume Production	Digi-Key	732-4978-1-ND		
	SSQ-103-02-T-S-RA	CONN RCPT 3POS 0.1 TIN PCB R/A	P1	1	Samtec	SSQ-103-02-T-S-RA	Volume Production	Rs	2081774		
	Header 7	Header, 7-Pin	P3	1	Wurth Electronics	61300711121	Volume Production				
	WR06X101JTL	RES 100 OHM 5% 1/10W 0603	R1, R2, R3	3	Walsin Technologies	WR06X101JTL	Volume Production	Digikey	1292-WR06X101JTLCT-ND		
	RMCF0603FT10K0	RES 10K OHM 1% 1/10W 0603	R4, R5, R6, R7, R8	5	Stackpole Electronics	RMCF0603FT10K0	Volume Production	Arrow Electronics	RMCF0603FT10K0		
	ESP-07	ESP8266 WIFI 802.11B/G/N 160MBIT	U1	1	RF Solutions	ESP-07S	Volume Production	Digi-Key	ESP-07S-ND		
	AMS1117-3.3		U2	1	UMW(Youtai Semiconductor Co., Ltd.)	AMS1117-3.3					
	HC-SR501	Mini PIR (Passive Infra Red) motion sensor module.	U3	1	Jameco Valuepro	157004-VP					