

BLUEBIRD CONNECTOR

RAW1
P0.07
P0.08
P1.08
P0.11

2
4
6
8
10
12

1
3
5
7
9
11

RAW2
RAW3
RAW4
RAW5
RAW6

J1

+3.3V

GND

67997-412HLF

SECURITY MODULE

+3.3V

GND

C4
0.1uF

+3.3V

R1
4.7K

R2
4.7K

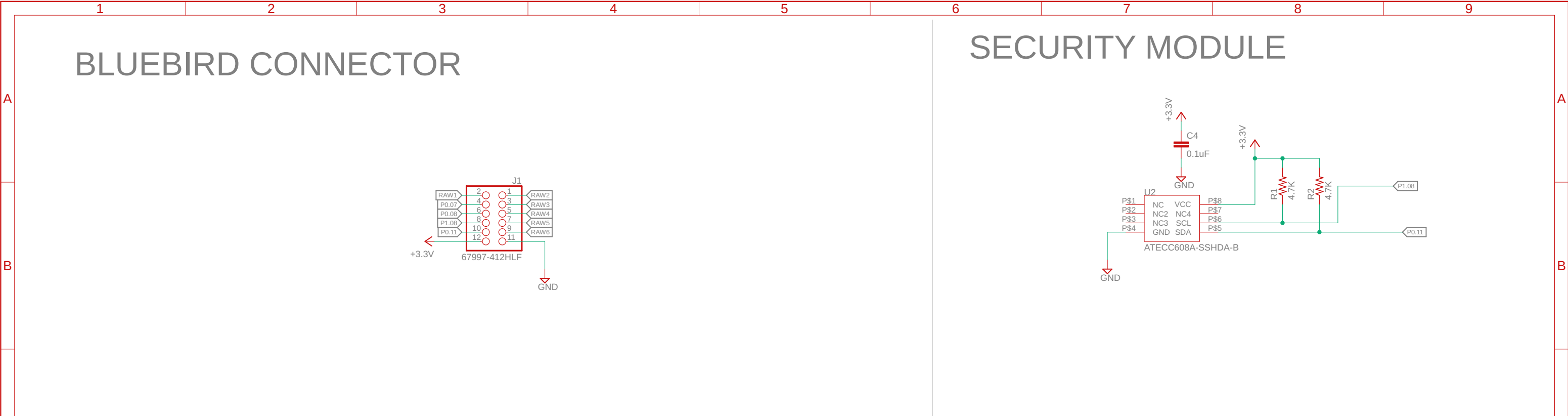
P1.08

P0.11

U2
ATECC608A-SSHDA-B

P\$1
P\$2
P\$3
P\$4
P\$5
P\$6
P\$7
P\$8

NC
VCC
NC2
NC4
NC3
SCL
SDA
GND

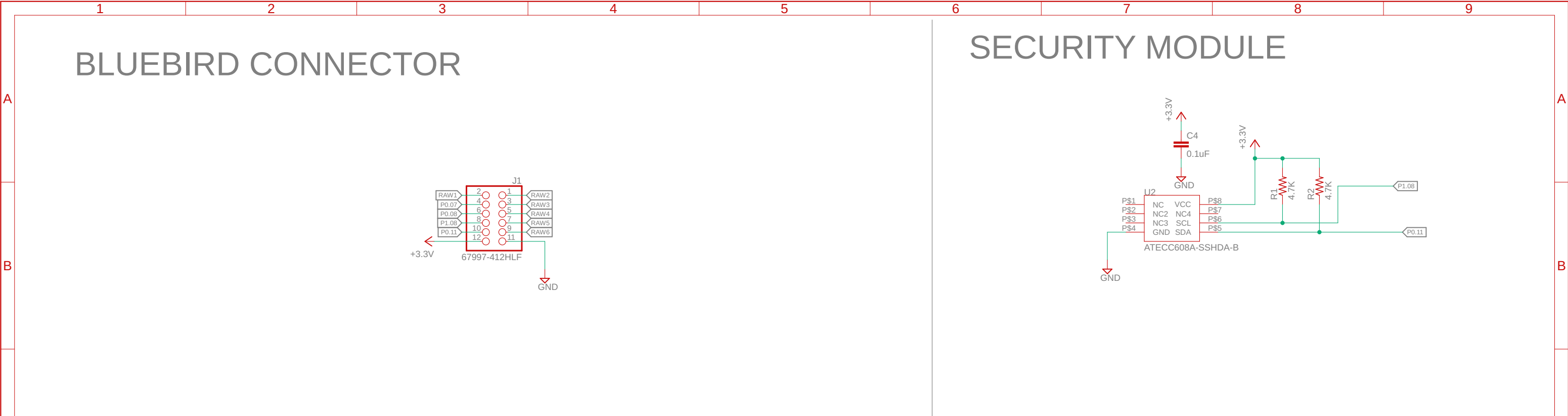


BLUEBIRD CONNECTOR

RAW1 2 1 RAW2
P0.07 4 3 RAW3
P0.08 6 5 RAW4
P1.08 8 7 RAW5
P0.11 10 9 RAW6
12 11
+3.3V 67997-412HLF
GND

SECURITY MODULE

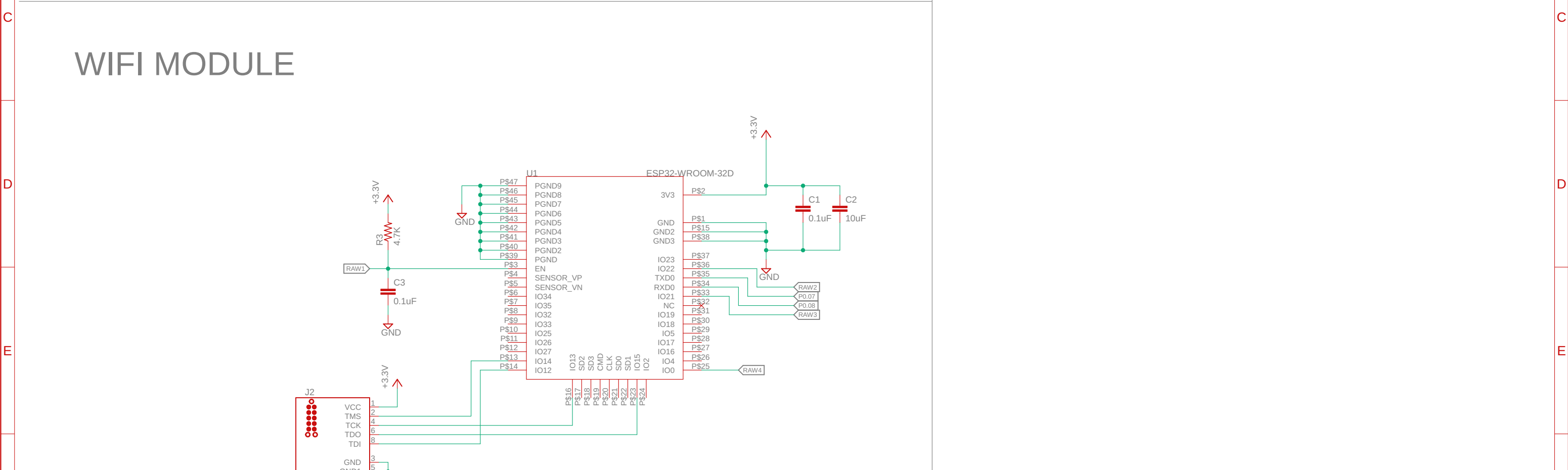
+3.3V
C4 0.1uF
GND
P\$1 NC VCC P\$8
P\$2 NC2 NC4 P\$7
P\$3 NC3 SCL P\$6
P\$4 GND SDA P\$5
ATECC608A-SSHDA-B
P1.08
P0.11
GND
+3.3V
R1 4.7K
R2 4.7K



WIFI MODULE

The diagram illustrates the electrical connections for an ESP32-WROOM-32D module. The module is represented by a central block with pins labeled P\$1 through P\$47 and IO0 through IO24. The connections are as follows:

- Power and Ground:** A +3.3V supply is connected to P\$2. Ground (GND) is connected to P\$1, P\$15, P\$38, P\$37, P\$36, P\$35, P\$34, P\$33, P\$32, P\$31, P\$30, P\$29, P\$28, P\$27, P\$26, P\$25, P\$14, P\$13, P\$12, P\$11, P\$10, P\$9, P\$8, P\$7, P\$6, P\$5, P\$4, P\$3, P\$39, P\$40, P\$41, P\$42, P\$43, P\$44, P\$45, P\$46, and P\$47. A 4.7K resistor (R3) is connected between RAW1 and P\$3. A 0.1uF capacitor (C3) is connected between P\$3 and GND. A 10uF capacitor (C2) is connected between P\$2 and GND. A 0.1uF capacitor (C1) is connected between P\$2 and GND.
- IO and Signal:** IO23 is connected to P\$37. IO22 is connected to P\$36. TXD0 is connected to P\$35. RXD0 is connected to P\$34. IO21 is connected to P\$33. IO35 is connected to P\$32. NC is connected to P\$31. IO19 is connected to P\$30. IO18 is connected to P\$29. IO5 is connected to P\$28. IO17 is connected to P\$27. IO16 is connected to P\$26. IO4 is connected to P\$25. IO0 is connected to P\$24. IO13 is connected to P\$16. SD3 is connected to P\$18. CMD is connected to P\$19. CLK is connected to P\$20. SD0 is connected to P\$21. SD1 is connected to P\$22. IO15 is connected to P\$23. IO2 is connected to P\$24. IO12 is connected to P\$14. IO14 is connected to P\$13. IO17 is connected to P\$27. IO18 is connected to P\$29. IO19 is connected to P\$30. IO21 is connected to P\$33. IO23 is connected to P\$37. TXD0 is connected to P\$35. RXD0 is connected to P\$34. P\$32 is connected to P\$33. P\$31 is connected to P\$30. P\$29 is connected to P\$28. P\$27 is connected to P\$26. P\$25 is connected to P\$24. P\$24 is connected to P\$23. P\$23 is connected to P\$22. P\$22 is connected to P\$21. P\$21 is connected to P\$20. P\$20 is connected to P\$19. P\$19 is connected to P\$18. P\$18 is connected to P\$17. P\$17 is connected to P\$16. P\$16 is connected to P\$15. P\$15 is connected to P\$14. P\$14 is connected to P\$13. P\$13 is connected to P\$12. P\$12 is connected to P\$11. P\$11 is connected to P\$10. P\$10 is connected to P\$9. P\$9 is connected to P\$8. P\$8 is connected to P\$7. P\$7 is connected to P\$6. P\$6 is connected to P\$5. P\$5 is connected to P\$4. P\$4 is connected to P\$3. P\$3 is connected to P\$39. P\$39 is connected to P\$40. P\$40 is connected to P\$41. P\$41 is connected to P\$42. P\$42 is connected to P\$43. P\$43 is connected to P\$44. P\$44 is connected to P\$45. P\$45 is connected to P\$46. P\$46 is connected to P\$47.
- Header J2:** A 5-pin header J2 is connected to the module. Pin 1 (VCC) is connected to P\$2. Pin 2 (TMS) is connected to P\$1. Pin 3 (TCK) is connected to P\$15. Pin 4 (TDO) is connected to P\$38. Pin 5 (TDI) is connected to P\$37. Pin 6 (GND) is connected to P\$36. Pin 7 (GND) is connected to P\$35. Pin 8 (GND) is connected to P\$34. Pin 9 (GND) is connected to P\$33. Pin 10 (GND) is connected to P\$32. Pin 11 (GND) is connected to P\$31. Pin 12 (GND) is connected to P\$30. Pin 13 (GND) is connected to P\$29. Pin 14 (GND) is connected to P\$28. Pin 15 (GND) is connected to P\$27. Pin 16 (GND) is connected to P\$26. Pin 17 (GND) is connected to P\$25. Pin 18 (GND) is connected to P\$24. Pin 19 (GND) is connected to P\$23. Pin 20 (GND) is connected to P\$22. Pin 21 (GND) is connected to P\$21. Pin 22 (GND) is connected to P\$20. Pin 23 (GND) is connected to P\$19. Pin 24 (GND) is connected to P\$18. Pin 25 (GND) is connected to P\$17. Pin 26 (GND) is connected to P\$16. Pin 27 (GND) is connected to P\$15. Pin 28 (GND) is connected to P\$14. Pin 29 (GND) is connected to P\$13. Pin 30 (GND) is connected to P\$12. Pin 31 (GND) is connected to P\$11. Pin 32 (GND) is connected to P\$10. Pin 33 (GND) is connected to P\$9. Pin 34 (GND) is connected to P\$8. Pin 35 (GND) is connected to P\$7. Pin 36 (GND) is connected to P\$6. Pin 37 (GND) is connected to P\$5. Pin 38 (GND) is connected to P\$4. Pin 39 (GND) is connected to P\$3. Pin 40 (GND) is connected to P\$39. Pin 41 (GND) is connected to P\$40. Pin 42 (GND) is connected to P\$41. Pin 43 (GND) is connected to P\$42. Pin 44 (GND) is connected to P\$43. Pin 45 (GND) is connected to P\$44. Pin 46 (GND) is connected to P\$45. Pin 47 (GND) is connected to P\$46. Pin 48 (GND) is connected to P\$47.





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