|  |  |  |
| --- | --- | --- |
| **Komponen** | **Fungsi** | **GPIO ESP32** |
| **Motor Kanan** | ENA (PWM) | GPIO 13 |
|  | IN1 | GPIO 32 |
|  | IN2 | GPIO 33 |
| **Motor Kiri** | ENB (PWM) | GPIO 14 |
|  | IN3 | GPIO 25 |
|  | IN4 | GPIO 26 |
| **IR Sensor Tengah** | Digital Input | GPIO 39 |
| **IR Sensor Kanan** | Digital Input | GPIO 38 |
| **IR Sensor Kiri** |  | GPIO 36 |
| **IR Sensor Kanan Jauh** |  | GPIO 35 |
| **IR Sensor Kiri Jauh** |  | GPIO 34 |
| **Ultrasonic** | TRIG | GPIO 27 |
|  | ECHO | GPIO 4 |
| **Servo Engsel** | PWM | GPIO 16 |
| **Servo Kunci** | PWM | GPIO 17 |
| **Buzzer** | PWM / I/O | GPIO 2 |
| **RFID RC522** | SDA / SS | GPIO 5 |
|  | SCK | GPIO 18 |
|  | MOSI | GPIO 23 |
|  | MISO | GPIO 19 |
|  | RST | GPIO 22 |
|  | IRQ | GPIO 21 |