

Parking System - Connection Table

Component	Pin Name	RPi GPIO Pin	Type	Description
IR Sensor Entry	OUT	17	Input	Detects vehicle at entry
IR Sensor Exit	OUT	27	Input	Detects vehicle at exit
Servo Motor	PWM	22	Output	Controls entry/exit gate
Push Button (Add RFID)	OUT	5	Input (PULL UP)	Registers new RFID card
Push Button (Remove RFID)	OUT	6	Input (PULL UP)	Removes RFID card
LCD I2C	SDA	2	I2C	Display system messages
LCD I2C	SCL	3	I2C	Display system messages
RFID Reader	MISO	9	SPI	Reads UID from RFID cards
RFID Reader	MOSI	10	SPI	Communication with Raspberry Pi
RFID Reader	SCK	11	SPI	Clock signal for SPI
RFID Reader	SDA	8	SPI	Chip select signal