

Pinout Mapping

GSR Sensor

GSR Pin	ESP32 GPIO	FUNCTION
VCC	3.3V	Power supply
GND	GND	Ground
OUT	GPIO34	Analog read (skin impedance)

DHT22 Sensor

DHT22 Pin	ESP32 GPIO	FUNCTION
VCC	3.3V	Power supply
GND	GND	Ground
DATA	GPIO4	Digital Read (Temperature and Humidity)

MAX30102 Sensor

MAX30102	ESP32 GPIO	FUNCTION
VCC	3.3V	Power supply
GND	GND	Ground
SDA	GPIO21	I2C Data
SCL	GPIO22	I2C Clock
INT	No Connection	NIL
IRO	No Connection	NIL
RD	No Connection	NIL

MLX90614 Sensor

MLX90614	ESP32 GPIO	FUNCTION
VCC	3.3V	Power supply
GND	GND	Ground
SDA	GPIO21	I2C Data
SCL	GPIO22	I2C Clock

OLED Display Sensor

OLED Pin	ESP32 GPIO	FUNCTION
VCC	3.3V	Power
GND	GND	Ground
SCL	GPIO18	SPI Clock (SCK)
SDA	GPIO23	SPI MOSI (Data)
RES	GPIO14	Reset
DC	GPIO27	Data/Command select