J1

VCC 1

MISO 3 — MISO
MOSI 4 — MOSI
CS 6 — CS
SCK 5 — SCK

GND 2

GND

SD Card — HW-125

U2
ESP32-DevKitC

CHIP_PU 2
5V 19
3V3 1

phase_0 7  32K_XP/GPIO32/ADC1_CH4
phase_1 8  32K_XN/GPIO33/ADC1_CH5

MTDI/GPIO12/ADC2_CH5 13
MTCK/GPIO13/ADC2_CH4 15
rddata  MTMS/GPIO14/ADC2_CH6 12
MTDO/GPIO15/ADC2_CH3 23

phase_2 5  VDET_1/GPIO34/ADC1_CH6
phase_3 6  VDET_2/GPIO35/ADC1_CH7
_enbl1 3  SENSOR_VP/GPIO36/ADC1_CH0
4  SENSOR_VN/GPIO39/ADC1_CH3

U0TXD/GPIO1 35
U0RXD/GPIO3 34 — _enbl2

GPIO0/BOOT/ADC2_CH1 25
ADC2_CH2/GPIO2 24
ADC2_CH0/GPIO4 26
GPIO5 29 — CS
GPIO18 30 — SCK
GPIO19 31 — MISO
GPIO21 33
GPIO22 36 — wrdata
GPIO23 37 — MOSI
DAC_1/ADC2_CH8/GPIO25 9 — rd_buf_en
DAC_2/ADC2_CH9/GPIO26 10 — _wrreq
ADC2_CH7/GPIO27 11 — sense/ACK

SD_CLK/GPIO6 20
SD_DATA0/GPIO7 21
SD_DATA1/GPIO8 22
SD_DATA2/GPIO9 16
SD_DATA3/GPIO10 17
CMD 18
GPIO16 27
GPIO17 28

GND 14

GND

ESP32-DevKitC

Noise Filter Caps

rd_buf_en
C1 22pF   C2 22pF

GND

_wrreq
C3 22pF   sense/ACK  C4 22pF

GND

J2
Conn_01x11_Socket

_enbl1 1
phase_2 2
phase_3 3
phase_0 4
phase_1 5
rd_buf_en 6
_wrreq 7
sense/ACK 8
rddata 9
wrdata 10
_enbl2 11

Basic Schematic Showing HW-125 SD Card Module & DevKitC-VE ESP-32 Modules wired to header pins

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