Hardware Block:

40MHz
XTAL

IN OUT

VDD33

ESP32-S3
ESP32-S3R2
ESP32-S3R8

EN

PSRAM(opt.)
(QSPI/OSPI)

VDD SPI
SPICS0
SPICLK
SPIQ
SPID
SPIHD
SPIWP

FLASH

RF Matching

ANT
CONN

Antenna

GPIOs

The values of C1 and C4 vary with the selection of the crystal.

The value of R4 varies with the actual PCB board. The initial value could be 24 nH.

The values of C11, L2 and C12 vary with the actual PCB board.

NC: No component.

ESP32-S3-WROOM-1U(pin-out)

Note: This is not another chip, it is module pinout.