

PULL-UP & PULL-DOWN RESISTOR

The diagram illustrates the connection of pull-up resistors for the RTC I2C interface. A 3V3DC supply is connected to two resistors, R16 and R19, which are in turn connected to the SCL and SDA lines of the RTC I2C. Both resistors are specified as 4k7R.

TEMPERATURE SENSOR

The diagram shows a DS18B20 temperature sensor (U4) connected to a 3V3DC supply and an I2C bus. The sensor's VCC pin (8) is connected to the 3V3DC supply through a 1uF capacitor (C24). The sensor's GND pin (4) is connected to ground. The sensor's SCLK pin (3) is connected to the I2C bus through a 100R resistor (R15). The sensor's SIO pin (2) is connected to the I2C bus through a 100R resistor (R17). The sensor's CS pin (1) is connected to the I2C bus through a 100R resistor (R14). The sensor's NC pin (6) is connected to the I2C bus through a 100R resistor (R18). The sensor's OT pin (5) is connected to the I2C bus through a 100R resistor (R18). The I2C bus is labeled with TEMP IN SCLK, TEMP IN SIO, TEMP IN CS, and TEMP IN OT.

The diagram illustrates the electrical connections for a WI-FI MODULE. It includes a power supply section, a pin connection table, and a control circuit.

Power Supply Section:

- A 3V3DC supply is connected to the module.
- Capacitors C27 (4.7uF), C28 (1uF), and C29 (100nF) are connected to the supply and ground (GND).
- WIFI ON signal is connected to pin 2.
- WIFI UART RXD is connected to pin 34.
- WIFI UART TXD is connected to pin 35.

Pin Connection Table:

Module Pin	Module Label	Module Pin	Module Label
2	3V3	100	25
3	EN	102	24
4	SENSOR_VP	104	26
5	SENSOR_VN	105	29
		1012	14
		1013	16
		1014	13
		1015	23
34	RXD0	1016	27
35	TXD0	1017	28
		1018	30
		1019	31
17	NC	1021	33
18	NC	1022	36
19	NC	1022	37
20	NC	1023	10
21	NC	1025	11
22	NC	1026	12
32	NC	1027	8
		1032	9
		1033	6
		1034	7
		1035	

Control Circuit:

- A 3V3DC supply is connected to the module.
- Resistor R20 (1kR) is connected between the supply and the WIFI ON pin.
- Resistor R22 (100R) is connected between the supply and the WIFI OFF GPIO pin.
- A transistor Q4 is connected to the WIFI OFF GPIO pin and ground (GND).

Notes:

- RxD and TxD for UART Comm.
- İşlemci üzerinden enable pini kontrol edilebilir. I/O pinlerinden birisine bağlanacak.