

The EUT is Smart Thermostat which supported IEEE 802.11 b/g/n 2.4GHz Wi-Fi and Bluetooth Low Energy.

The Mars Intelligent Thermostat is an intelligent HVAC device controller Device, local interaction contains three capacitive touch keys And LED dot matrix screen, remote interaction through mobile APP real now.

The Mars smart thermostat is based on user-set information and data Ground sensor data, combined with local and cloud control algorithms, Intelligent adjustment of home decoration HVAC system working mode, in order to real Now the temperature, humidity, air circulation in the living environment Intelligent adjustment to achieve a balance between comfort and energy saving.

SPECIFICATION:

Input: 24V~ 60Hz 0.1A max

Dimensions: 145mm x 83mm x 22mm

Operating Temperature: 32° F~130° F

Operating Humidity: 5%~95%RH (non-condensing)

Storage Temperature: -22~140° F

Storage Humidity: 5%~95%RH (non-condensing)

Technical Specification of Wi-Fi 802.11 b/g/n (WBR1)	
Operating Frequency	2412 - 2462 MHz for 802.11b/g/n(HT20)
Type of Modulation	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n
Channel Number	11 channels for 802.11b/g/n(HT20)
Channel Separation	5 MHz
Number of Antenna:	1
Antenna type	FPC antenna
Antenna Gain:	4.88dBi

Technical Specification of Bluetooth Low Energy (WBR1)	
Operating Frequency	2402 – 2480 MHz
Data rate	1Mbps
Channel Number	40 channels
Channel separation	2MHz
Modulation	GFSK
Number of Antenna	1
Antenna Type	FPC antenna
Antenna Gain	4.88dBi

Technical Specification of Bluetooth Low Energy (ESP32)	
Operating Frequency	2402 – 2480 MHz
Data rate	1Mbps
Channel Number	40 channels
Channel separation	2MHz
Modulation	GFSK
Number of Antenna	1
Antenna Type	PCB Layout antenna
Antenna Gain	3.97dBi