

Operation Description

EUT (FCC ID: V37-PTT-1026) is a mobile internet device (touch screen), using a 12 V/2 A power adapter (at DC input jack). EUT is equipped with power/charger input port, USB2.0 OTG, HDMI 1.3, micro SD/TF Card slot, Camera, Volume buttons, headphone jack, microphone, gravity sensor, Power button and Reset button. For wireless connection, it supports IEEE 802.11bgn20/40 WiFi (limited for USA to 11 channels for 11bgn20: 2412-2462MHz and 7 channels for 11n40: 2422-2452MHz) and Bluetooth (70 channels from 2402-2480MHz) wireless connections (ad hoc mode is not supported by the device). WiFi modulation used is DSSS (CCK, BPSK, QPSK) and OFDM and Bluetooth modulation used is FHSS (GFSK). Based on USI WM-BN-BM-01 SIP module with Broadcom BCM4329 chipset. WiFi has rated power of 13dBm and Bluetooth has rated power of 4dBm, both using the same 0dBi internal PCB antenna. WiFi and Bluetooth can/do not transmit simultaneously.

Circuit description:

12V input power is used for charging the battery and converted to 5V, 3.3V, 1.8V and 1.25V for supply power to all chipset and circuits. MCU controls NAND flash and DDR, SATA, micro SD/TF Card/Slot, LCD Display, HDMI circuitry, SDIO for WiFi/BT module, etc, and function control buttons. The main board uses two Crystals: 24MHz and 32.768kHz. 32.768kHz is used for RF module also.