Operational Description

General Product Information

The Cruz Tablet PS127 is one of the latest portable products with 7" TFT panel for multimedia player.

Circuit Description

The device can support access multimedia from SD socket or Wi-Fi download via internet.

The Wi-Fi module download data are processed by MCU through **SDIO** interface and display on screen, the maxim transmission rate is 15Mbps.

The MCU can also access SD card and process the data by user' command, then display relative content on screen, the maxim access frequency is 24MHz.

The output signals for display are composed of 24 bits RGB data and TCON signal, the clock frequency is 31MHz.

The audio decoder connected with MCU by IIS interface decode and D/A convert to amplifier, which drive speakers.

The WIFI module WM-N-BM-01is single chip devices provides for the highest level of integration for a mobile or handheld wireless system ,with integrated IEEE 802.11 b/g and handheld class 802.11N(MAC/baseband), The WM-N-BM-01 is based on Broadcom 4319 chipset which is a WiFi Transceiver SOC. The Radio architecture & high integration MAC/BB chip provide excellent sensitivity with rich system performance. The module is designed as single antenna for WiFi for the application of SDIO interface.

Ratings and System Details

MCU Frequency: 528MHz

Crystal Frequency: 12MHz

Crystal Tolerance: ± 20ppm

WIFI Rating and System Detail:

Tx mode

Transmitter Frequency: 2412-2462MHz

Crystal Tolerance: ± 20ppm

RF Power: 11.57dBm(802.11b), 10.78dBm(802.11g), 10.07dBm(802.11n)

Power Consumption: DC 3.3V 400mA(MAX)

Modulation mode: DSSS+OFDM

RX mode

receiver Frequency:2. 412--2.462GHz

Crystal Tolerance: ± 20ppm

Power Consumption: DC 3.3V 400mA(MAX)