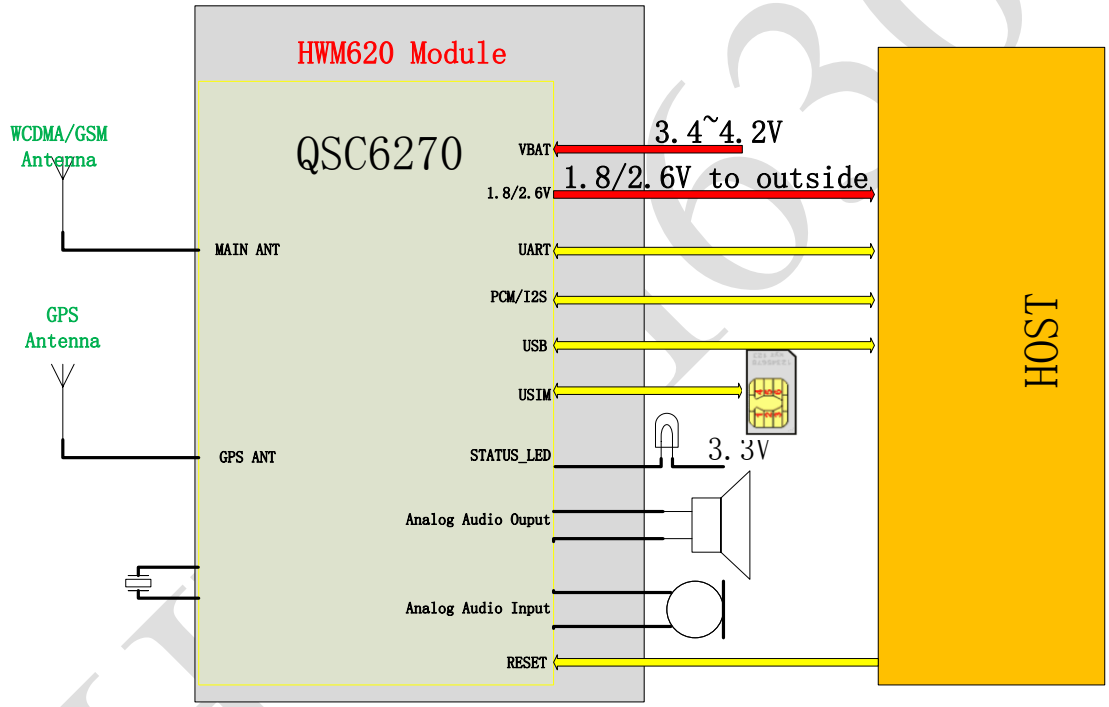
Operation Description

Power: 3.4V~4.2V
RF Module: HWM620
Working Frequency:
WCDMA/HSDAP:
B2: 1850~1910MHz / 1930~1990MHz
B5: 869~894 MHz / 824~849MHz
GSM:
GSM850: 869~894 MHz / 824~849MHz
PCS1900: 1930~1990 MHz / 1850~1910MHz



The HWM620 module is designed based on Qualcomm QSC6270 chipset, which is used for WCDMA and GSM network. It supports HS USB and UART interface to the host processor for the data application. There are also analog and digital Audio interface for the voice function. The main antenna port is used for WCDMA/GSM and another antenna port is used for GPS. This module can supports 1.8V and 3.3V USIM with auto detection. The status_led is used indicate module status, such as idle, busy and data service.

1. HWM620 can support standard AT command and HTF's extension AT command.

2. The data rate support is as below:
HSDPA： UL 384Kbps/DL 3.6Mbps
WCDMA PS：UL 384kbps/DL 384kbps

WCDMA CS：UL 64kbps/DL 64kbps
EDGE：UL 236.8kbps/DL 236.8kbps
GPRS：UL 53.6kbps/DL 53.6kbps
GSM CS：UL 9.6kbps/DL 9.6kbps

3. This module is used for data and voice application.

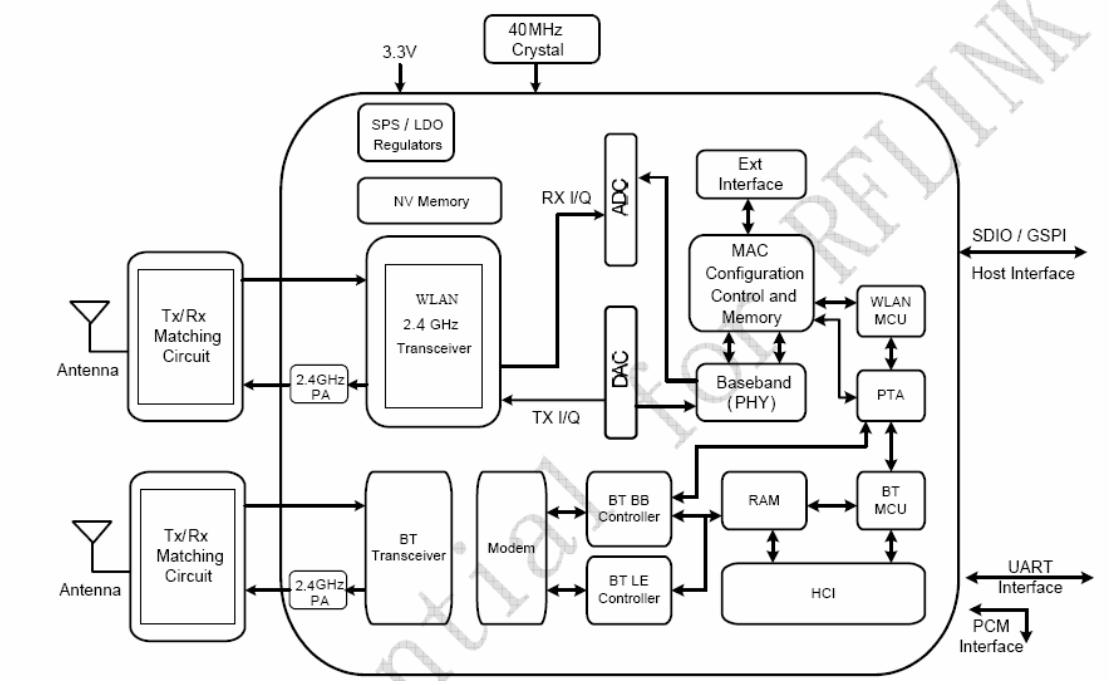
Operation Description

Power: Rated supply voltage: 3.3V.

RF Module: RTL8723AS-VAU

Work Freqency: 2412~2462MHz for wi-fi 802.11bgn

2402~2480MHz for Bluetooth



The RTL8723AS-VAU module is designed based on Broadcom 4329 chipset solution. It supports generic SPI (G-SPI), SDIO interface to connect the WLAN to the host processor. High speed UART is available to connect the Bluetooth2.1+EDR/BT3.0 to the host processor. A Bluetooth co-existence interface is supported for external, co-located Bluetooth devices. If Antenna be diversity, Antenna should add one SPDT switch outside module and control by module.

1. The RTL8723AS-VAU is 802.11b/g/n draft compliant 1T1R 2.4G ISM and BT AC/BBP/2.4G ISM band Transceiver.
2. Tine frequency is a multiplied frequency to produce a extract HF signal.
3. RF module is used for producing digital modulation OFDM and DSSS.