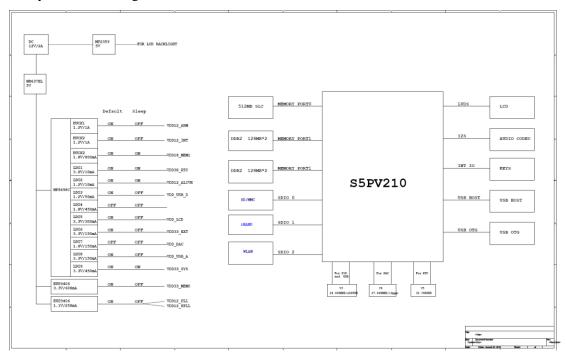
349765 Operation Description

1) System Block Diagram

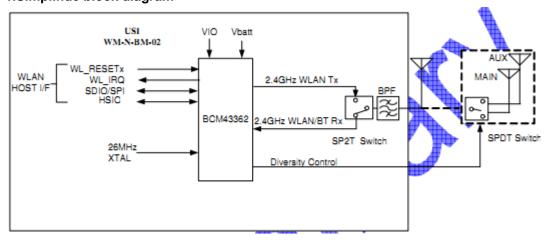


MID-D7001 setup:

Samsung S5PV210 (Cortex A8) CPU, Operational Frequency is 1GHz, 512MB DDR2, a USB HOST port, a USB OTG port, an audio jack, a multi-card holder (support SD/MMC), 7" LCD DISPLAY with touchpanel, 4GB iNand.

WiFi Module

1.Simplifide block diagram



2.WM-N-BM-02 Features

- Lead Free design which supporting Green design requirement, RoHS Compliance.
- Small size suitable for low volume system integration.
- Low power consumption & excellent power management performance extend battery life.
- 2.412-2.484 GHz two SKUs for worldwide market.
- Easy for integration into mobile and handheld device with flexible system configuration and antenna design.
- Supports per packet Rx Antenna diversity

3. WIRELESS SPECIFICATIONS

The WM-N-BM-02 module complies with the following features and standards;

Features	Description
WLAN Standards	IEEE 802 Part 11b/g/n (802.11b/g/n)
Antenna Port	Support Single Antenna for WiFi
Frequency Band	2.412 GHz - 2.484 GHz

4. RADIO SPECIFICATIONS 802.11B/G/N

Features	Description		
Frequency Band	2.4000 GHz - 2.484 GHz (2.4 GHz ISM Band)		
Number of selectable Sub channels	14 channels		
Modulation	OFDM, DSSS (Direct Sequence Spread Spectrum), DBPSK, DQPSK, CCK, 16QAM, 64QAM		
Supported rates	1,2, 5.5,11,6,9,12,24,36,48,54 Mbps		
Maximum receive level -	-10dBm (with PER < 8%)		
Output Power	17 dBm +2/-2 dBm for 1, 2, 5.5, 11Mbps 14 dBm +2/-2 dBm for 6, 9, 12, 18, 24, 36, 48, 54 Mbps 12 dBm +2/-2 dBm for 11n (HT20)		
EVM	Typical	Maximum	Unit
@11 Mbps	-13	-11	dB
@1 Mbps	-13	-11	dB
@54 Mbps	-30	-25	dB
@6 Mbps	-30	-22	dB
HT20 @ MCS0	-30	-22	dB
HT20 @ MCS7	-30	-28	dB

Electrical Properties for 2.4G

Item	Property	
Impedance	50 (Typ.)	
VSWR	≦3	
Return Loss	-9 dB max	
Gain	1 dBi (Typ.)	
Radiation pattern	Vertical Polarization	
Electrical wave	1/4λ dipole	

Antenna Location

