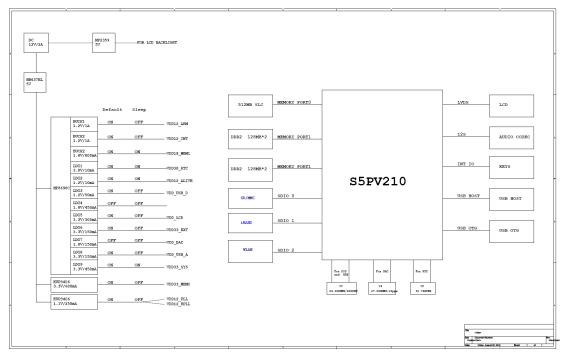
304662 Operation Description

1 System Block Diagram



2 Production Description

Samsung S5PV210 (Cortex A8) CPU, Operational Frequency is 800MHz/1GHz, 512MB DDR2, a USB HOST port, a USB OTG port, an audio jack, a multi-card holder (support SD/MMC), 10.1" AUO LCD DISPLAY with touchpanel, 4GB iNand.

3 WLAN description

The 304662 WiFi module which is the onboard module communicate with the CPU by SDIO interface

WiFi Module technical details as follow

3.1 Features

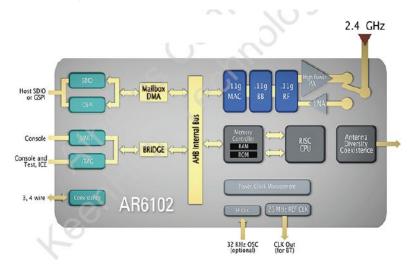
- IEEE 802.11b/g compliant
- Data rates of 1–54 Mbps for 802.11g
- · Advanced power management to minimize standby, sleep and active power
- · Security support for WPS, WPA2, WPA, WAPI and protected management frames
- · Support for 2.4 GHz operation in all available bands in all regulatory domains
- · Full 802.11e QoS support including WMM and U-APSD

• Support for fast Tx and Rx antenna diversity allowing optimal antenna selection on a perpacket basis

- · Supports both SDIO 1.1 and GSPI host interfaces.
- Standard 2, 3 and 4 wire Bluetooth coexistence handshake support
- · 16550-compliant UART Wake-on-Wireless (WoW) maximizes host sleep duration

- 7.4 x 8 mm LGA package
- · Pre-certified to meet FCC, ETSI, and TELEC standards
- Integrated PA, LNA, RF switch and High Freq Reference Clock, minimizing external component count
- Integrated RF shielding
- · Suports cellular co-existence with an external band-pass filter

3.2 Simplified block diagram



		Current Consumption [mA]			Total Power
Rate [Mbps]	Target Output Power [dBm]	@1.2 V	@1.8 V	@3.3 V	Consumption [mW]
1	15	37	51	97	456
2	15	37	51	97	456
5.5	15	37	51	97	456
11	15	37	51	97	456
6	15	44	65	97	490
9	15	44	65	97	490
12	15	44	65	-	490
18	15	44	65	97	490
24	15	45	65	96	488
36	14	45	58	91	459
48	13	45	55	85	433
54	11	45	65	76	422

802.11b/g Channel Center Frequency			
CHNL_ID	Frequency (MHz)		
1	2412		
2	2417		
3	2422		
4	2427		
5	2432		
6	2437		
7	2442		
8	2447		
9	2452		
10	2457		
11	2462		

3.4 The channel center frequency and CHNL_ID numbers shall be shown in the following table.

3.5 Antenna Specification

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

4 Antenna Location

