

The diagram illustrates the system architecture of a mobile phone, centered around the **AP / CP MSM8926** processor. The components and their connections are as follows:

- RF Section:** Includes **Sub ANT** and **Main ANT** connected to **Sub ANT Switch** and **Main ANT Switch**. These connect to **DUPLEXER** and **Transceiver WTR1625L**. The transceiver handles various frequency bands (Non US, GSM900, DCS1800, W1, W8, LTE1, LTE3, LTE7, LTE28) and US bands (W5, LTE5). It connects to **MMMB PAM SKY77630** and **B28 PA** for power amplification.
- GPS:** Connected via **GPS ANT LOW** to a **DIPLEXER** and **SAW Filter**, leading to **LNA BGU8009** and **SAW Filter**, which connect to the **Transceiver**.
- BT/WiFi:** Uses **Bluetooth WiFi WCN3660A** for **WIFI 2.4GHz** and **WIFI 5GHz** communication. It connects to **Band Pass Filter** and **WLAN** pins on the AP/CP.
- NFC:** Utilizes **NFC IC PN547** for **NFC** communication, connected to **SIM SOCKET** and **BATTERY** via **NFC_SWP** and **NFC_ANT_1/2**.
- GRI P Sensor:** Uses **GRI P Sensor SX9500I ULTRT** for proximity sensing, connected to **RF_TOUCH_AP** and **RF_TOUCH_D**.
- AUDIO:** Features **Main MIC**, **Sub MIC**, and **SPK L/R** connected to **Audio CODEC WCD9306**. It also includes an **Ear Jack** and **Comparator** for ear detection.
- STORAGE:** Includes **MicroSD** and **16GB eMMC** for data storage, connected to the AP/CP via **T_FLASH_CLK**, **T_FLASH_CMD**, and **T_FLASH_DETECT**.
- CHARGER/USB:** Features a **Charger IC MAX77804** for **IF PMIC** and **Micro USB CON** for charging. It includes **Switch**, **OVP**, and **Pogo contact** for power management.
- TSP:** Uses **TSP IC S5707** for touch sensing, connected to **TSP_POWER** and **TSP_I2C**.
- LCD/MOTOR:** Includes a **BUCK** converter for **DISPLAY_3.3V** and **MOTOR** control. It features **MIPI filter** and **Backlight Driver LP8556** for the **LCD**.
- Camera:** Features **3M CAM** and **VT CAM** connected to the AP/CP via **3M_CLK_P/N**, **3M_DP/N**, **3M_MCLK**, **CAM1_RST_N**, **3M_nSTBY**, **CAM_I2C**, **CAM_ANALOG_EN**, **VTCAM_EN**, **VT_CAM_MCLK**, **CAM2_RST_N**, **VT_CAM_nSTBY**, **VT_CAM_CLK_P/N**, and **VT_CAM_DP/N**.
- SENSOR:** Includes **HALL IC**, **ACC Sensor K2HHTR**, and **Prox & Light Sensor** for various sensing functions.
- Other Components:** Includes **Thermistor for PA**, **Thermistor BATT**, **Thermistor AP**, **Thermistor SYSTEM**, **RFCLK1_19.2M**, **PMI C AUDIO_REF_CLK**, **EAR_ADC_3.5**, **PA_THERM0_MPP5**, **VREG_S1_1P15**, **VREG_S2_1P15**, **VREF_LPDDR2**, **VREF_MSM_PX_MPP1**, **VREF_LDO_MPP3**, **GRFC(12)**, **BAT_UIM_ALARM**, **SLEEP_CLK**, **BBCLK1_MSM**, **BBCLK1_MSM_EN**, **MSM_PS_HOLD**, **HOME_KEY**, **Side Key**, **PM_KYPD_PWR_N**, and **VOL_DOWN**.