

The diagram illustrates the system architecture centered around the **E-GOLDlite PMB7860 C166S+TEAKlite** microcontroller. Key components and their connections include:

- Power Management:** A **Lilon-Akku 820mAh** battery provides power to the system. A **Charger Control Circuit** manages charging. The **Salzburg 75 /Twigo 3+75** IC handles power distribution, including a **DC-DC Converter** for **VBOOST** and two **LDOs** (2.9V and 1.8V) for **VEBU_2.9** and **VEBU_1.8**.
- Memory:** **Stack Memory** includes **FLASH(128MBits)** and **PSRAM(16MBits)** at **3.0V**. It interfaces with the microcontroller via **D0-D15**, **A0-A23**, **CS_FLASH1**, **CS_SRAM**, **BHE**, **RD**, **WR**, **F_WAIT**, and **RESET UC**.
- Input/Output:**
 - Keyboard (6*4):** Connected via **KB0** and **KB2-KB9**.
 - Keyboard BackLight (Blue):** Controlled by **LIGHT_KB**.
 - DISPLAY BackLight Control:** Receives **LIGHT_DISP** and **LIGHT_LCD** signals.
 - Vibra:** Receives **VIBRA_UC** and **BATT+** signals.
 - RF Interface SD2:** Manages RF signals like **RF_ANT_DET**, **RF_AFC**, **RF_BAND_SW**, **RF_DAT**, **RF_CLK**, **RF_STR**, **RF_SIN26M**, **TVCO**, **RF_TXONPA**, **RF_RAMP1**, **RF_FE_DCR_GSM**, and **RF_FE_DCR_DCS**.
 - SIM CARD:** Interfaces via **CCIO**, **CCCLK**, and **CCRST**.
 - IO Interface:** Manages **MICP2**, **TX**, **RX**, **AC_DCD**, **GND**, **AC_RTS**, **AC_CTS**, **GND_MIC**, and **POWER**. It also handles **Audio_L** and **Audio_R** signals.
 - SPEAKER:** Driven by **EPP1** and **EPN1** signals.
- Other Signals:** The microcontroller also manages **IR_SEL**, **STEPUP_SHDN**, **1.5V**, **VDD_RTC**, **VDIG_2.65**, **VDDA_2.65**, **EPN1_FIL**, **EPP1_FIL**, **CHARGE_UC**, **WA_DOG**, **RESET_UC**, **I2SWA0**, **I2SDA0**, **I2SCA0**, **RTC_INT**, **SLEEPQ**, and **KB7**.