

1 Module Interface Boards

1.1 UC864 Interface Board

This interface board allows easy interfacing between the UC864 module and the EVK2 motherboard and testing of its functions.

WARNING Certain UC864 pins are not electrically compatible with GC864 pins, so make sure to set the jumpers correctly according to the corresponding model before to using the interface board.

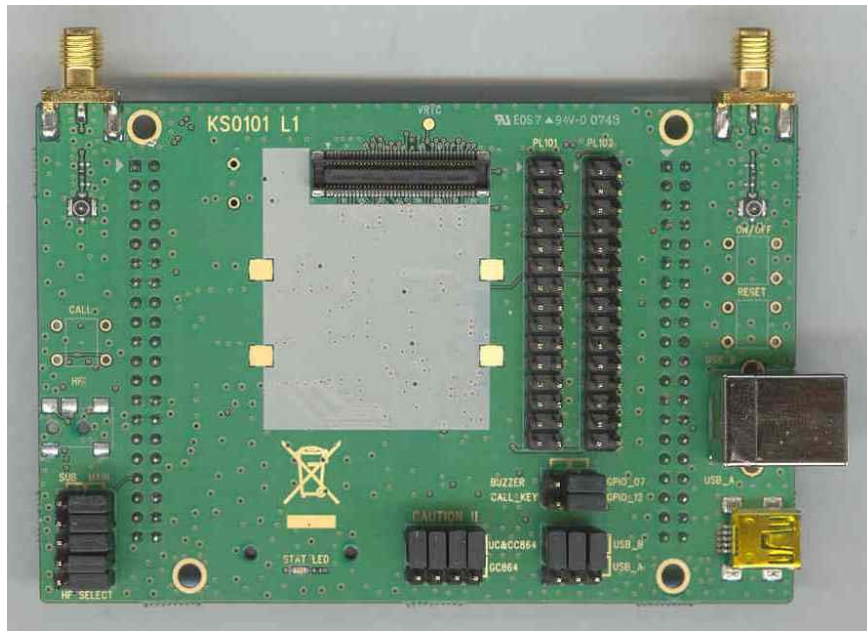
1.2 Interface Connectors

The following connectors are available for UC864:

- Two antenna connectors (SMA Female)
- Two female connectors (40 pins each: CON102, CON103) to connect the interface to the EVK2 motherboard circuits
- Two male connectors (30 pins each: PL101, PL102), via which it is possible to connect external devices, including user applications, Telit extension boards, and measuring equipment
- One USB B-type receptacle connector (J102) for connection to a PC.



1.3 Interface Board Image



TOP View

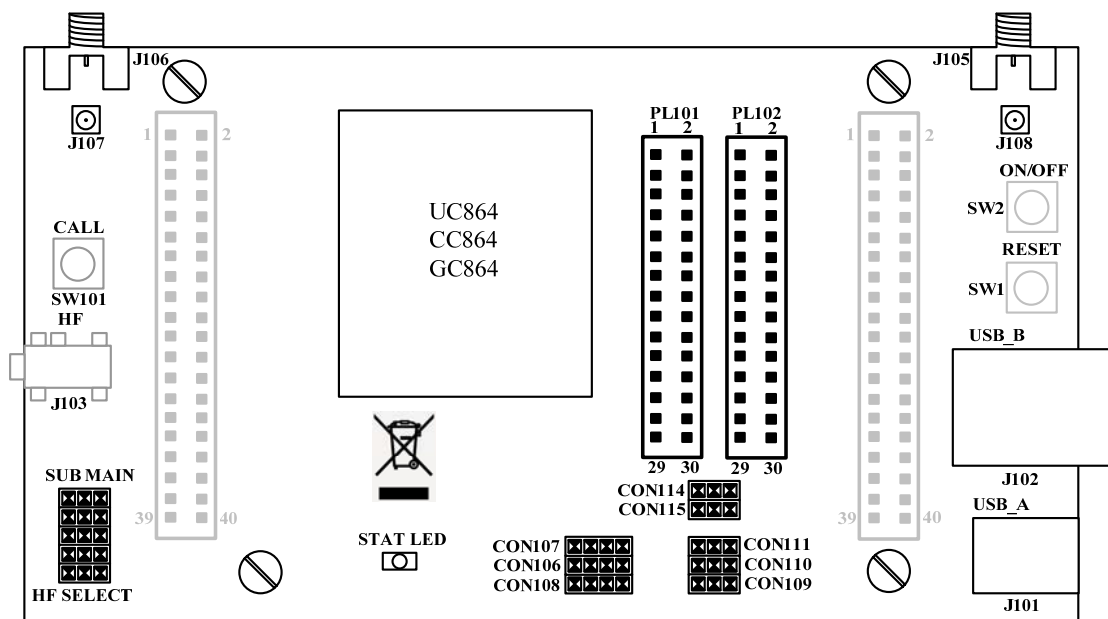


BOTTOM View

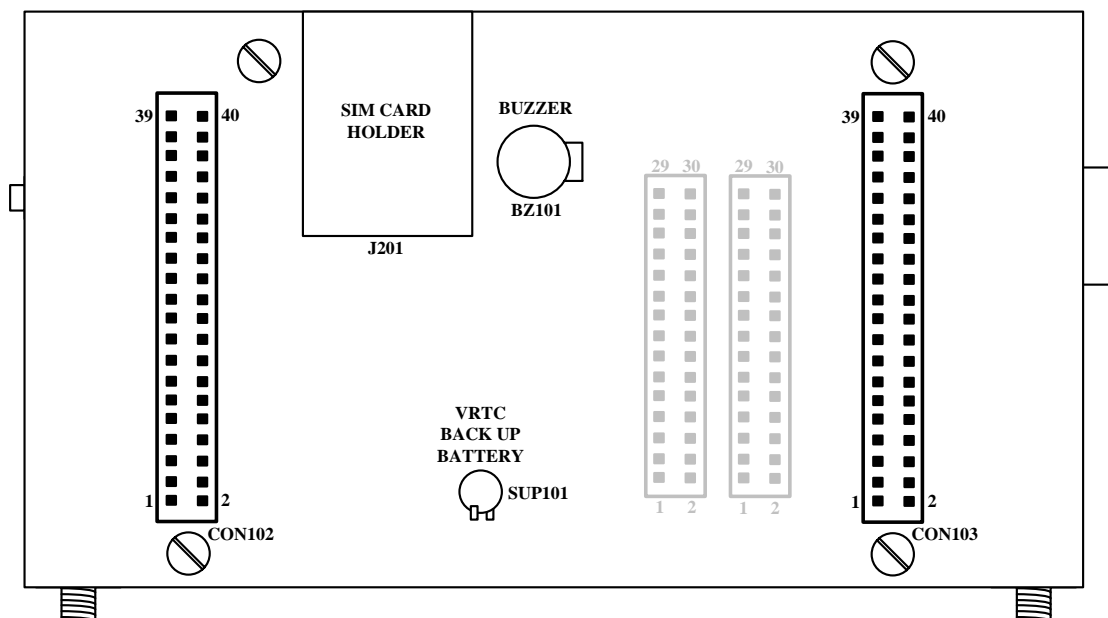
Figure1-1 UC864 Interface Board



2 Component Diagram



TOP View



BOTTOM View

Figure 2-1 Component Diagram



2.1 Jumper Settings

2.1.1 Jumper Settings When Using the UC864 (Default)

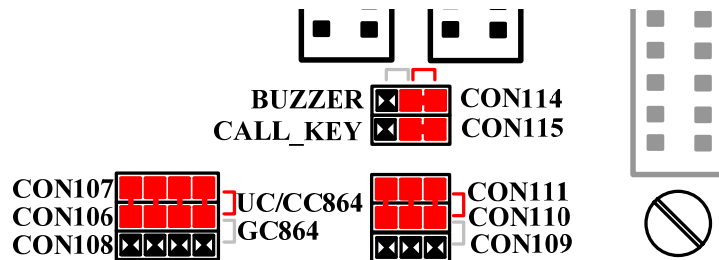


Figure 2-2 Jumper Settings for the UC864

CON106, CON107, CON108

In case you're using the UC864 module, connect CON106 and CON107 to make easier the connection of USB_D+, USB_D-, USB_VBUS, and USB_ID signals.

In case you're using the GC864 module, connect CON106 and CON108 via jumpers. If you neglecting to do so pin35, pin48, pin79, and pin80 of the GC864 module can be damaged

CON109, CON110, CON111

To use the USB B-type receptacle connector (J102) for serial communication with a PC, connect CON110 and CON111 via jumpers. (USB peripheral mode: default)

CON114

To configure correctly GPIO_7 connect the pins number 2 and 3

CON115

To configure correctly GPIO_12 connect the pins number 2 and 3.



2.2 Antenna Connectors (J105, J106)

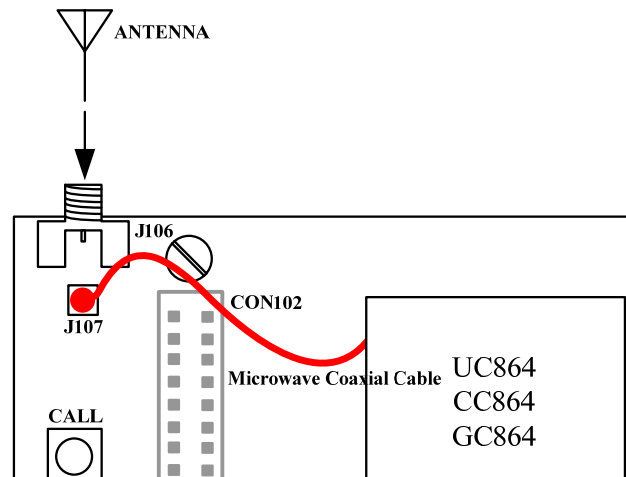


Figure 2-3 Antenna Connection

There are two SMA-type antenna connectors on the UC864 interface board. After connecting an antenna to an SMA connector as shown in Figure 2-3, connect the module and RF connector J107 (MOLEX, P/N:MM9329-2700) via a microwave coaxial cable.

2.3 Selection of handsfree audio path

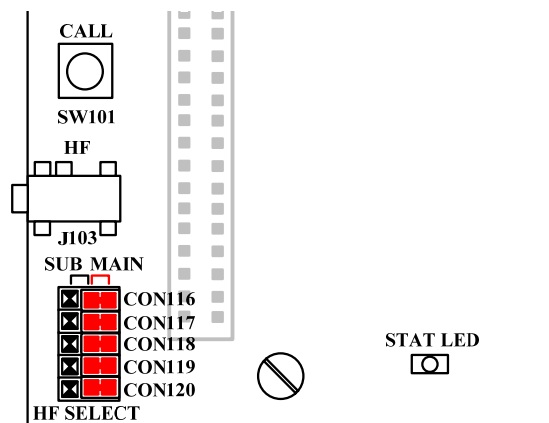


Figure 2-4 Selection of handsfree audio path



2.7 40-Pin Female Connectors (CON102, CON103)

The connections between the interface board of the UC864 module and the EVK2 motherboard are made through 2x 40-pin female connectors. All pin positions and functions is listed in the following tables.

CON102				CON103			
N.C	1	2	TX_TRACE	VBATT	1	2	VBATT
RX_TRACE	3	4	RESERVED	VBATT	3	4	VBATT
GND	5	6	RESERVED	GND	5	6	GND
RESERVED	7	8	RESERVED	GND	7	8	GND
RESERVED	9	10	N.C	CHARGE	9	10	CHARGE
GND	11	12	GND	GND	11	12	GND
GND	13	14	GND	GND	13	14	GND
C109/DCD	15	16	C104/RXD	ON_OFF*	15	16	N.C
C103/TXD	17	18	C108/DTR	RESET*	17	18	N.C
GND	19	20	C107/DSR	N.C	19	20	N.C
C105/RTS	21	22	C106/CTS	STAT_LED	21	22	N.C
C125/RING	23	24	N.C	N.C	23	24	N.C
GND	25	26	GND	GND	25	26	GND
GND	27	28	GND	GND	27	28	GND
EAR_HF+	29	30	EAR_MT-	N.C	29	30	N.C
EAR_HF-	31	32	EAR_MT+	SIMIO	31	32	SIMCLK
AXE	33	34	MIC_HF-	SIMRST	33	34	SIMVCC
MIC_MT+	35	36	MIC_HF+	SIMIN	35	36	N.C
MIC_MT-	37	38	GND	N.C	37	38	GND
GND	39	40	GND	GND	39	40	GND

Table 2-2 Positions of 40-Pin Female Connectors on the Interface Board



4 Schematics

Please refer to the last release of EVK2 User Guide 1vv0300704 for schematics of the UC864 interface board.



