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1 Module Interface Boards

1.1 UC864/CC864 Interface Board

This interface board allows easy interfacing between the UC864/CC864 module and the EVK2 motherboard and testing of its functions.

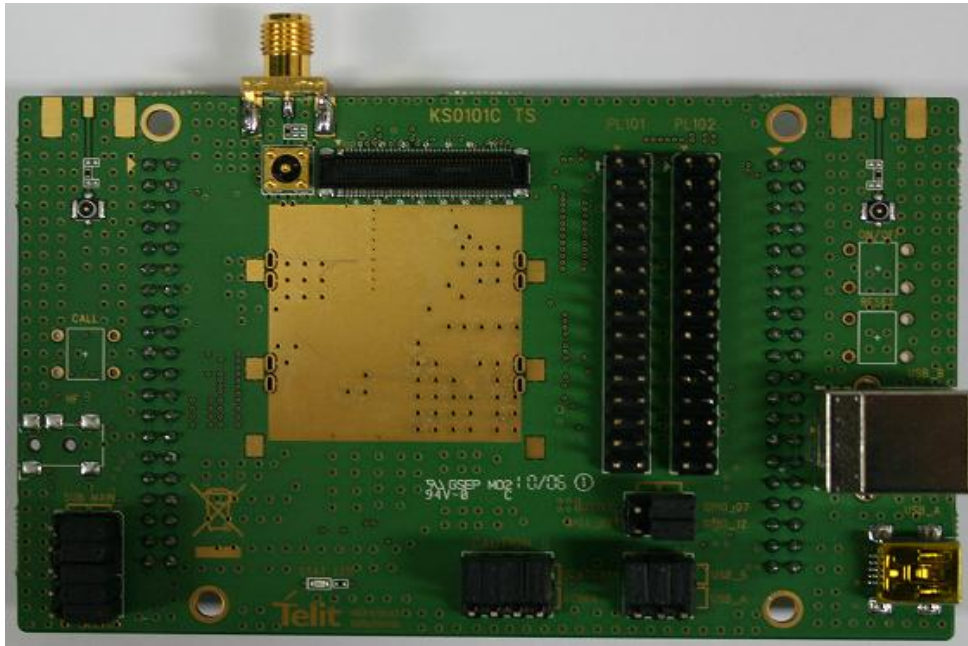
WARNING Certain UC864/CC864 pins are not electrically compatible GC864 pins, so make sure to set the jumpers correctly according to the corresponding before using the interface board.

1.2 Interface Connectors

The following connectors are available for UC864/CC864:

- Antenna connectors
J105, J106, J107 and J108 are used for the standard configuration of UC864/CC864 family.
J109 and J110 are used only for UC864-E-AUTO
- 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 mini AB-type receptacle connector(J101) and one USB B-type receptacle connector (J102) for connection to a PC.





TOP View



BOTTOM View

Figure1-2. UC864-E-AUTO Interface Board (P/N 4990250037)



2 Component Diagram

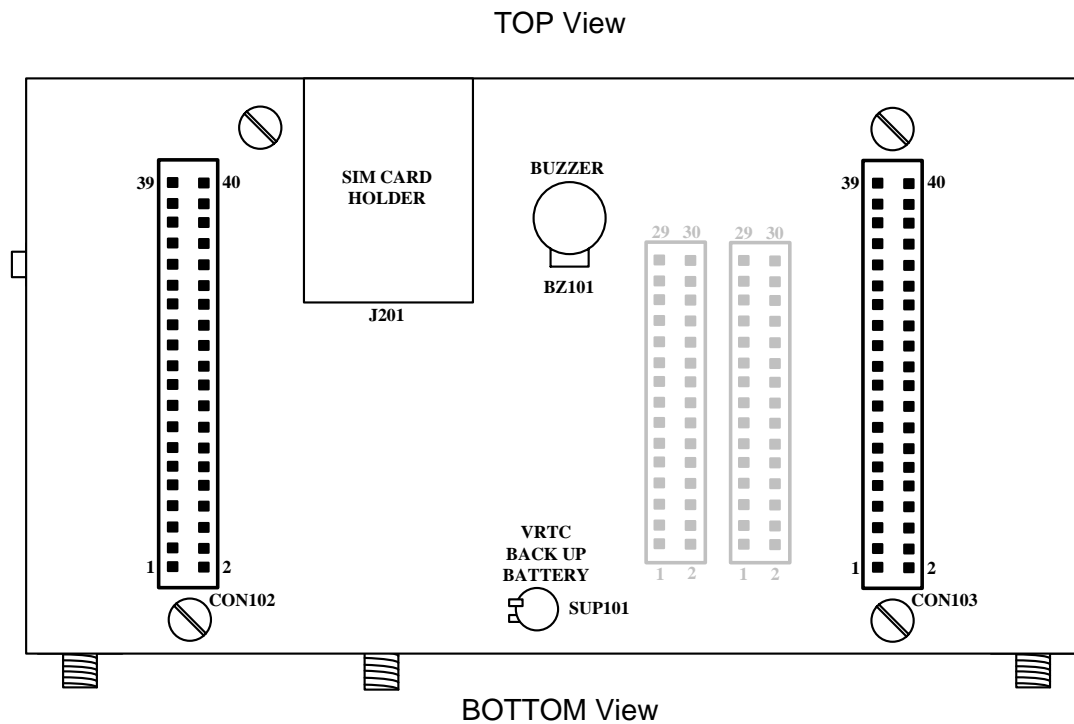
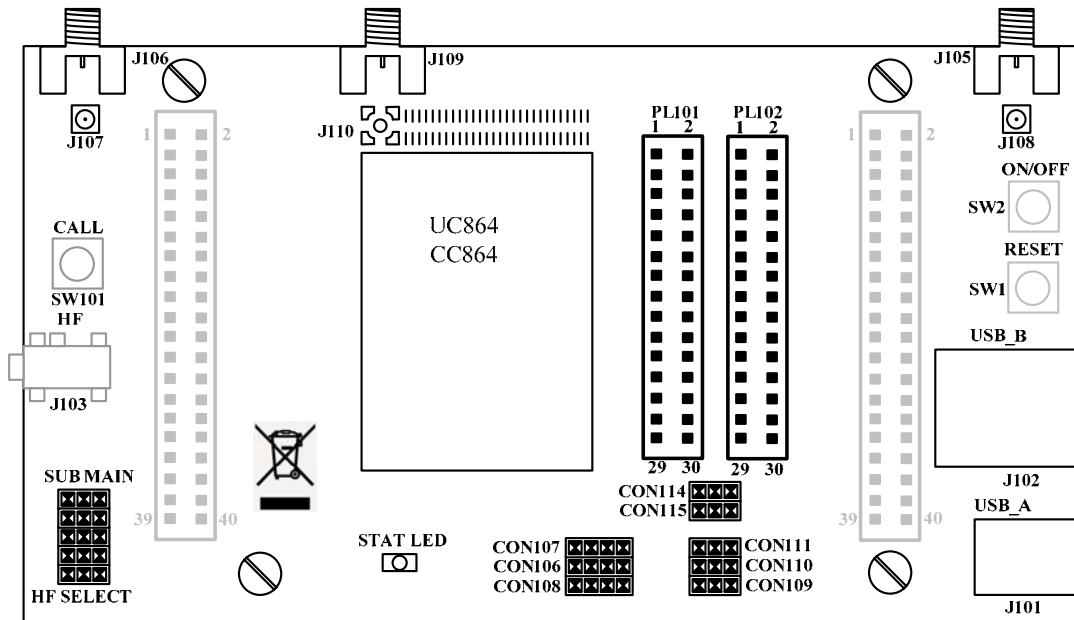


Figure 2-1 Component Diagram



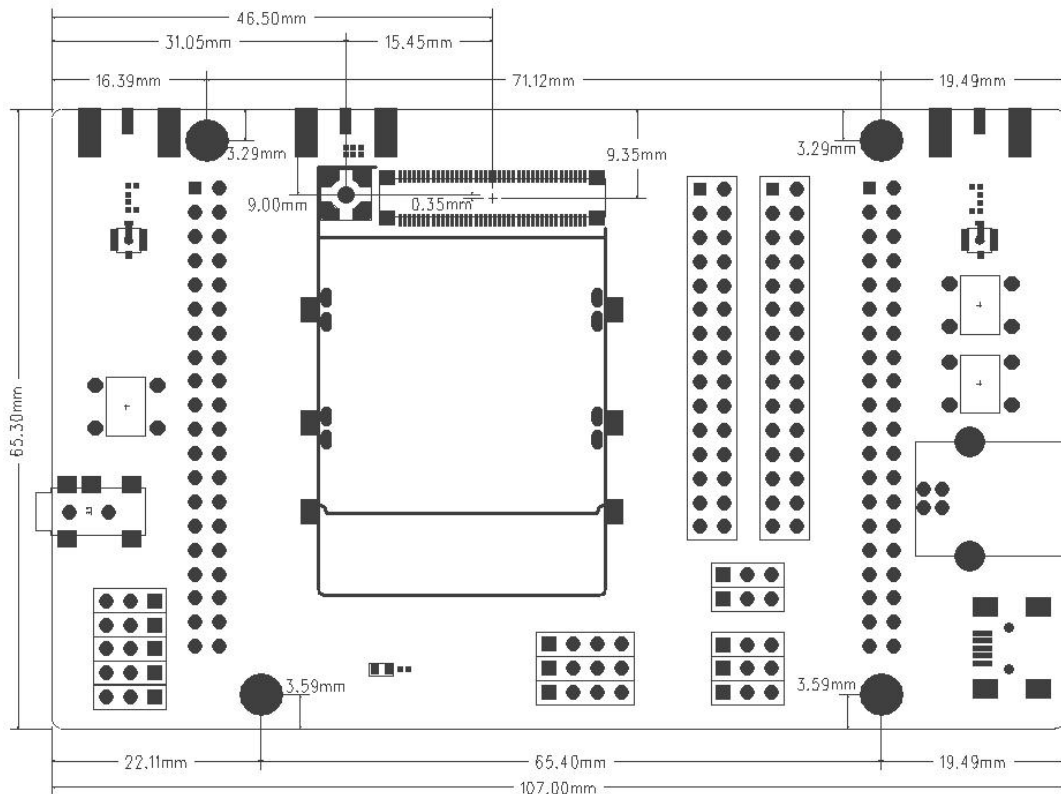


Figure 2-2 UC864/CC864 Interface Board dimension

2.1 Jumper Settings

2.1.1 Jumper Settings When Using the UC864/CC864 (Default)

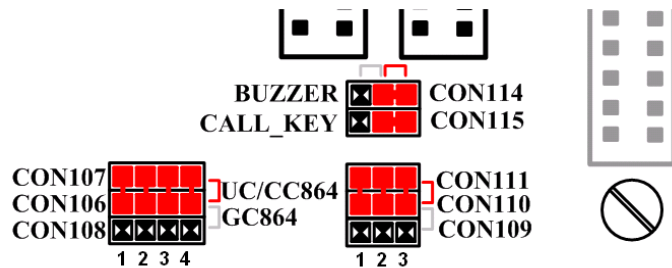


Figure 2-3 Jumper Settings for the UC864/CC864



CON106, CON107, CON108

When using the UC864/CC864 module, connect CON106 and CON107 to facilitate connection of USB_D+, USB_D-, USB_VBUS, and USB_ID signals.

When using the GC864 module, connect CON106 and CON108 via jumpers. If you neglect 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)

To use the USB mini AB-type receptacle connector (J101) for serial communication with a USB peripheral device, connect CON109 and CON110 via jumpers.(USB host mode ; not supported at the moment)

CON114

To configure correctly GPIO_7 connect the pin 2 and 3

CON115

To configure correctly GPIO_12 connect the pin 2 and 3

2.2 Antenna Connectors (J105, J106, J109)

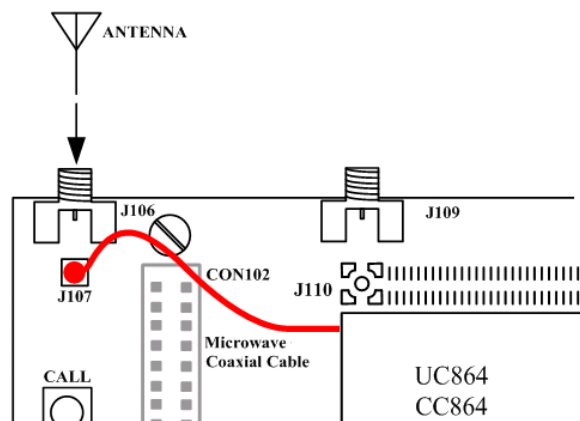


Figure 2-4 Antenna Connection

There are three SMA-type antenna connectors on the UC864/CC864 interface board. J105 and J106 are used for the standard UC864, CC864 and GC864 in common. Via a microwave coaxial cable, connect J107 or J108(MOLEX, P/N:MM9329-2700) to the module. You can use one antenna for WCDMA/CDMA/GSM and the other one for GPS, if needed.

Especially, for UC864-E-AUTO, use J109 SMA antenna connector, connected directly to the module through J110(Rosenberger, P/N: 99CI106-030).



2.7 40-Pin Female Connectors (CON102, CON103)

The connections between the interface board of the UC864/CC864 module and the EVK2 motherboard are made through 2x 40-pin female connectors. All pin positions and functions are listed in the following tables.

CON102				CON103			
N.C	1	2	TX_TRACE	VBATT	1	2	VBATT
RX_TRACE	3	4	I2C_SDA_HW	VBATT	3	4	VBATT
GND	5	6	I2C_SCL_HW	GND	5	6	GND
SSC0_CLK	7	8	SSC0_MTSR	GND	7	8	GND
SSC0_MRST	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



3 Power On/Off Sequences

When using the Telit Interface Board to turn UC864/CC864 power on or off, make sure to follow the sequences provided below.

	Power On Sequence	Power Off Sequence
1	Join the interface board and the UC864/CC864 module.	Remove the USB cable from J102.
2	Use the power switch on the EVK2 motherboard to turn power on.	Use the power switch on the EVK2 motherboard to turn power off.
3	Link the USB cable to J102.	Remove the UC864/CC864 module from the interface board.

Table 3-1 Power ON/OFF sequences



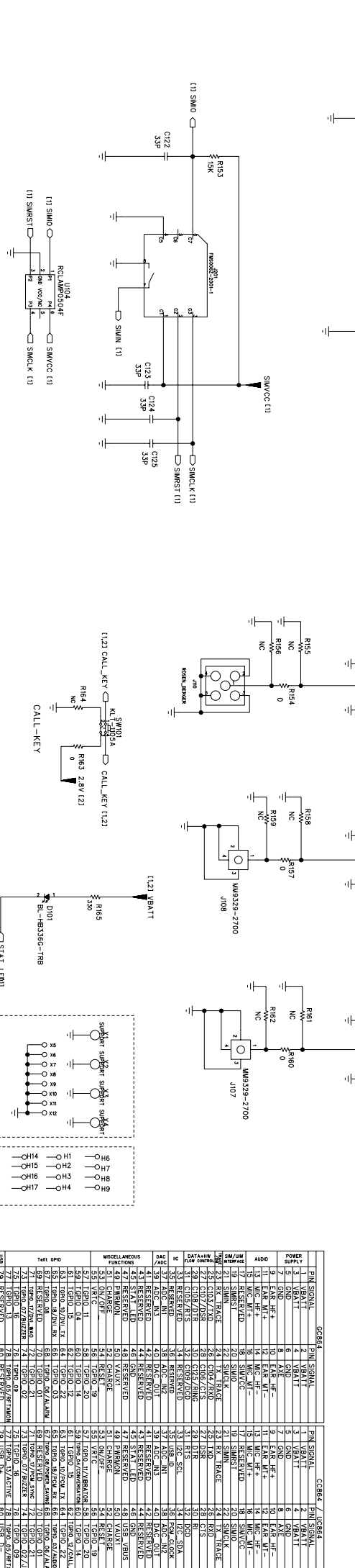
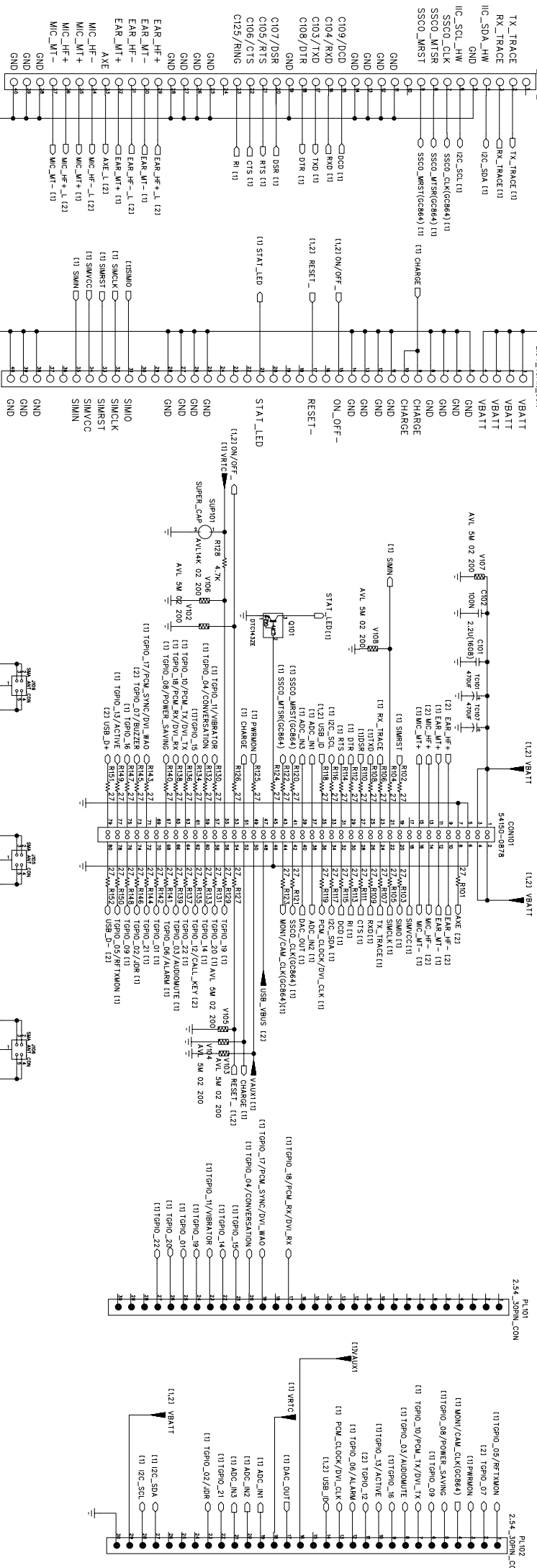
2.54_40PIN_CON

2.54_40PIN_CON

2.54_40PIN_CON

P1.01

P1.02



Pin	Signal	Function	Pin	Signal	Function
1	VBATT	VBATT	1	VBATT	VBATT
2	VBATT	VBATT	2	VBATT	VBATT
3	VBATT	VBATT	3	VBATT	VBATT
4	VBATT	VBATT	4	VBATT	VBATT
5	VBATT	VBATT	5	VBATT	VBATT
6	VBATT	VBATT	6	VBATT	VBATT
7	VBATT	VBATT	7	VBATT	VBATT
8	VBATT	VBATT	8	VBATT	VBATT
9	VBATT	VBATT	9	VBATT	VBATT
10	VBATT	VBATT	10	VBATT	VBATT
11	VBATT	VBATT	11	VBATT	VBATT
12	VBATT	VBATT	12	VBATT	VBATT
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14	VBATT	VBATT	14	VBATT	VBATT
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36	VBATT	VBATT	36	VBATT	VBATT
37	VBATT	VBATT	37	VBATT	VBATT
38	VBATT	VBATT	38	VBATT	VBATT
39	VBATT	VBATT	39	VBATT	VBATT
40	VBATT	VBATT	40	VBATT	VBATT

Interface Board

