place in scan matrix? would need 3-4 wires to UPPER board instead of 2!
No. VOL+ or VOL- can either be connected to GPIOs or drive two FETs that sit in the keyboard matrix
in any case it is sufficient to connect GPIO-VOL+ and VOL- to two pins on the B2B connector

Buttons

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can be used to test/operate the modem through the OTG port (w/o UPPER PCB)
Modem Power
Can we connect UART in parallel to Bluetooth UART (i.e. if BT is disabled we can unbrick the Modem?)
**Antenna connections**

**TITLE:** GTA04b7-jr-2-beautyly_fonts

**Document Number:**

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Si4705 is pin compatible (mostly) but RX-only
WLAN & Bluetooth & FM

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**Document Number:**

**REU:** V2b
problem: this is a 0.5mm BGA making lower board expensive!
but it appears to be not extremely critical (only 3 rows and inner ring is GND)
problem: analog mic is on upper board!
alternative: place on upper board (to be evaluated)

conflict with bmc150?
address: 0x18-0x1b

Audio Codec

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Audio Handsfree

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ca. 130 signals (to be counted exactly after definition of upper/lower split)
Pin assignment must be optimized for final component placement. We might have to switch to 80 or 100 pin connectors.
to be adjusted to lower board connector

B2B to lower board

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needs final tuning (which button on which position)

VOL+ and VOL- could drive FETs sitting in the matrix.
Display-Peripherals

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Adjust sense resistor+Z-Diode to voltage&current
Check with data sheet of Sony ACX565AKM

connector pin assignment needs intensive review!!!
INCOMPLETE in V2

should drive TPS65950

this goes through B2B to modem

needs a small charge pump to generate 5V 50mA.

PMU+Codec

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simple capless 400mA LDO for TPS65950 substitute
(only for prototype)
note: D7, D8, D9 are powered differently!
checkme: assignment of LED location to output number
These connectors allow to "emulate" the DM3730 by connecting a BB-XM

INCOMPLETE
prototype only

connect to respective CPU-pads

Connect to OMAP3 McSPI1, i2C2, MMC2 / some GPIOs

Connect to OMAP3 Camera

Connect to OMAP3 DSS / GPIOs, I2C3

Connect to BB
by some Micro-USB cable
Ersetzen durch 2A buck converter
BB-XM Adapter (DISP)

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BB-3V3/33.4C
Molex Jumper cables to connect BB-XM-Adapter to upper board

CPU

DISP

CAM

N900 case assembly

N97-CAMERA-HOLE

headset jack

STENCIL-TOP

STENCIL-BOTTOM

No-Solder Components

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