Battery charger with USB OTG

Power distribution and sequencing
Most high-current components are on VBAT/OUTPOUT. L1/L2 signals that the regulators on USB are operational.

KiCad bureaucracy
Battery and cage contacts

Legacy fuel gauge

Advanced fuel gauge

Note: BQ2320X needs pull-up at GPIO.
TODD: assign footprints for c-spring contacts

WLAN/BT antenna

WLAN

Bluetooth

Reserved / Debugging

FM Radio (TX/RX)

SI4705 is pin compatible (mostly) but RX-only

To select 12C, GND2 must be driven low at time of AGD1 rising.
Acceleration (legacy)

Pressure, humidity

keep away from liquids and extreme temperatures

9-axis (acceleration, gyroscope, magnetometer)

keep away from magnets and metal
LOWER-BOB Interconnect (LOWER side)
This is just the collection of signals we have. Proper assignment still pending.
LOWER-BGB Interconnect (BGB side)

Hackerbus

ESD pin assignment is only indicative. Actual assignment to be defined by layout.
TODO: consider sheet for deletion
OMAP is not part of v2
eMMC is not part of v2
Companion chip (TPS65950) is not part of v2
simple capless 40mA LED for MPS55550 substitute
(only for prototype)

TODO: use REGEN?
Cleaning up. The connections to BB-xM are on the next sheets.
TODO: update pin names in footprint
TODO: update pin names in footprint

P11 (7.25)

P13 (7.25)

P4 (7.19)

Connect to BB-4I P4.3 (1-video connector)

2x 100 mA FM
Processor Camera Port Interface (P10, 7.20.3)

TODO: update pin names in footprint

Sheet: BB-XM adapter (CAM)/
File: v2bb0035_35.smw
Title: BB-XM Adapter (CAM)

This part is a "breakaway" strip (20 positions) and needs to be mechanized (short before assembly).
Alternatively, 812-10-020-16-010000 (100 positions) could be used.
Notes: Jumper cables to connect BB->YN adapter to upper board.

- H3701
  - L5015-0-39
  - CPU

- H3702
  - L5015-0-39
  - DISP

- H3703
  - L5015-0-39
  - CAN

- H3704
  - H900 case assembly

- H3705
  - H57 camer-a-hole

- H3706
  - Headset jack

- H3707
  - STERCH-POP

- H3708
  - STERCH-BOTTOM