

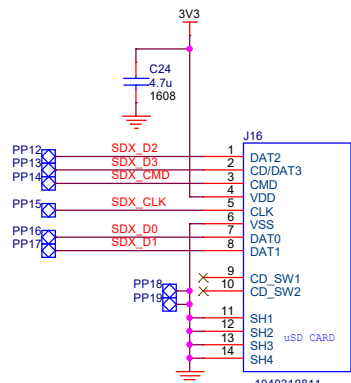
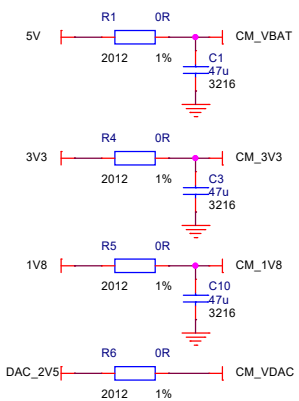
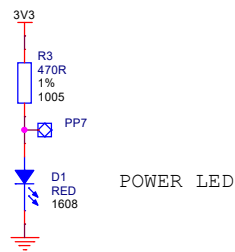
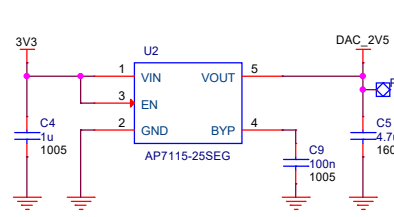
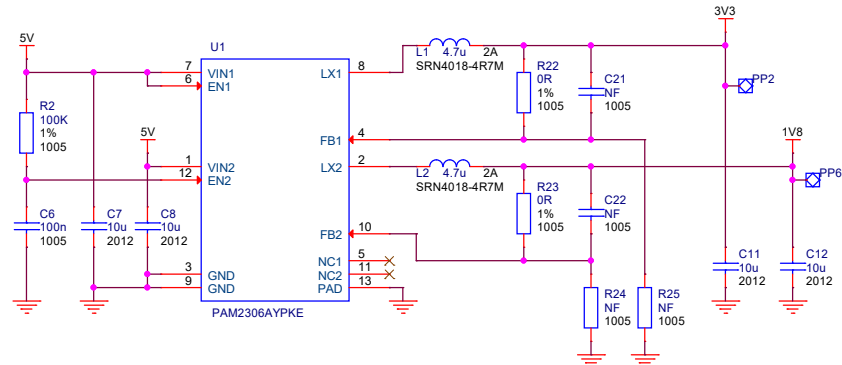
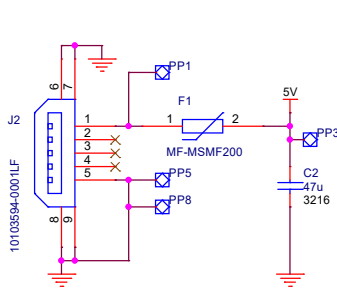
CONTENTS :

- PAGE1 - CONTENTS
- PAGE2 - POWER, MODULE, GPIO, JTAG
- PAGE3 - CSI, DSI, HDMI, USB

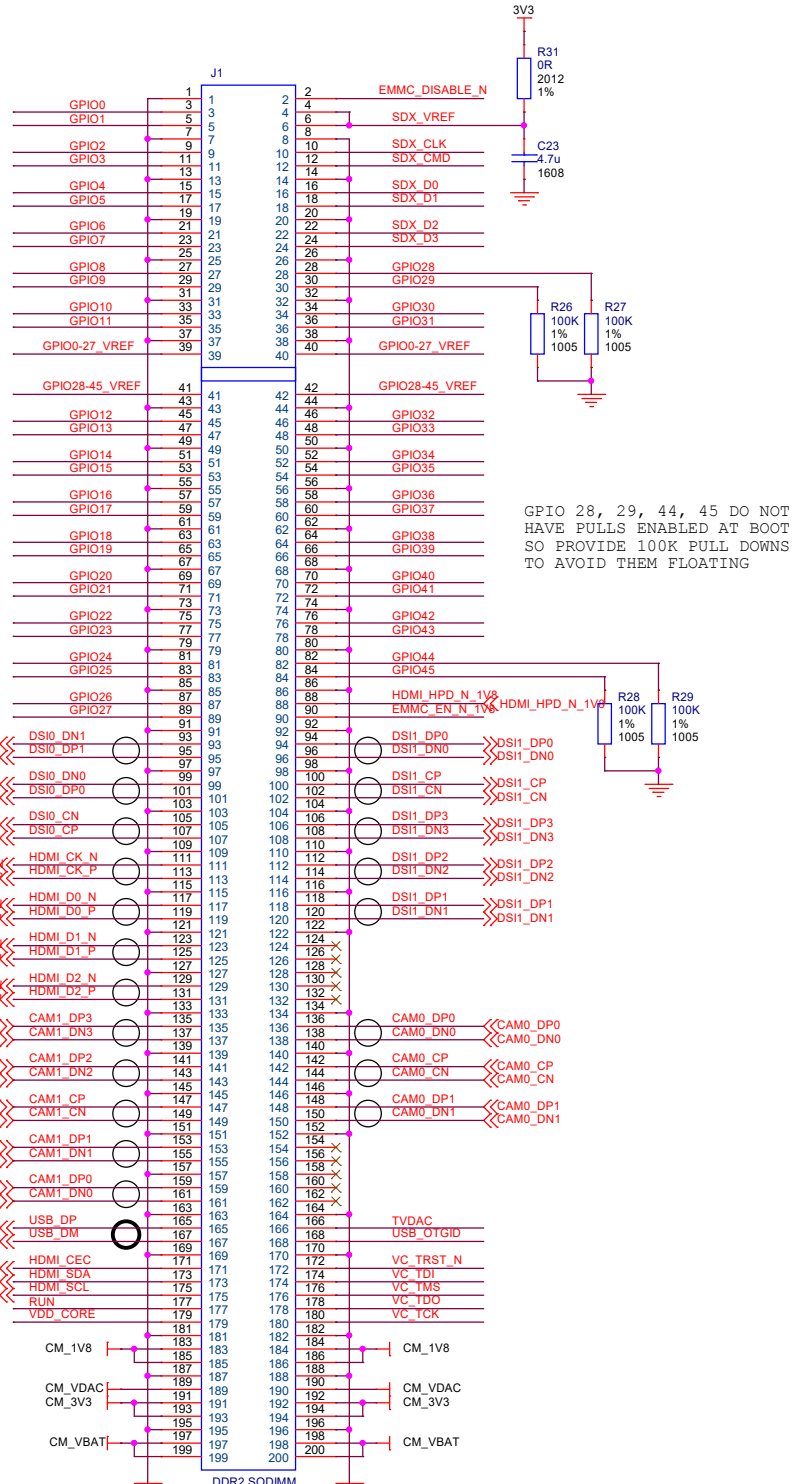
REVISION HISTORY:

- 10/04/2014 - V1.2 - Production Version
- 13/10/2016 - V3.0 - Production Version

POWER IN



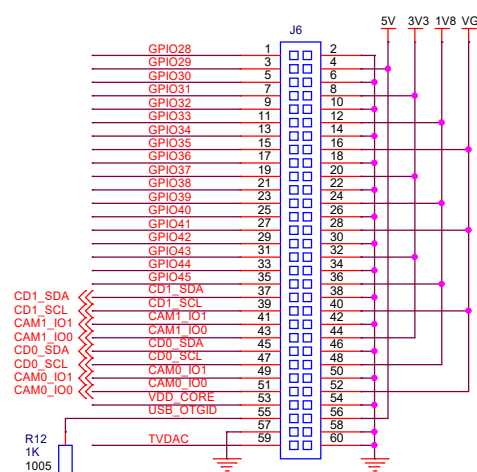
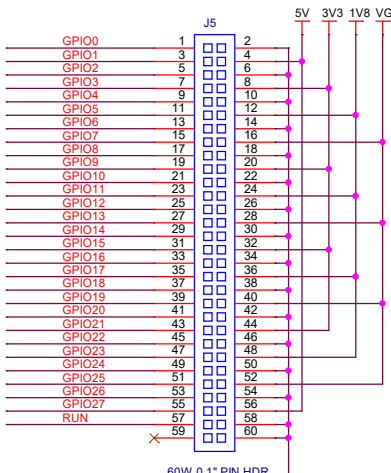
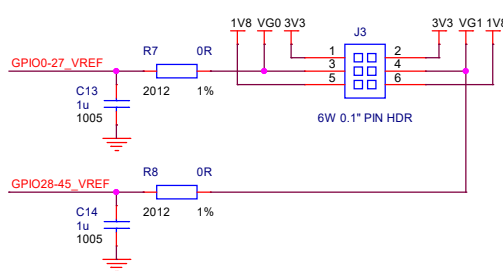
SD Card for modules with no on-board Flash (eMMC)



GPIO 28, 29, 44, 45 DO NOT HAVE PULLS ENABLED AT BOOT SO PROVIDE 100K PULL DOWNS TO AVOID THEM FLOATING

GPIO BANK 0/1 VOLTAGE SELECT:

Jumper Positions VG0 / VG1:  
1-3 / 2-4 = 3V3  
3-5 / 4-6 = 1V8  
NC = external source



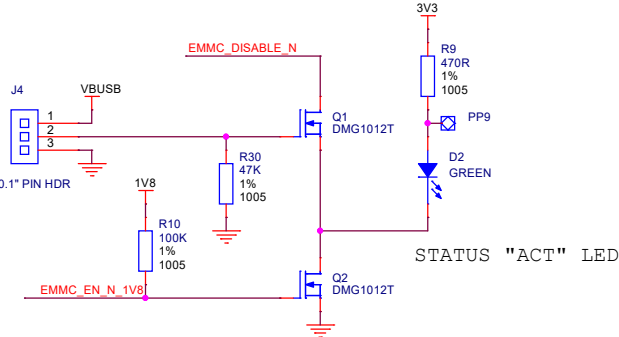
MODULE BOOT OPTIONS:

BCM2835 BootROM boot from USB:  
- J4 set to enable USB boot  
- Plug host into micro USB socket J15 (VBUS=5V)  
- EMMC EN\_N\_1V8 high at boot (input with 1.8k pullup)  
- EMMC\_DISABLE\_N therefore LOW  
- On power up BCM2835 can't access eMMC so boots from USB  
- Once booted, 2835 USB boot SW forces EMMC\_EN\_N\_1V8 to enable access to eMMC

BCM2835 BootROM boot from eMMC:  
- Nothing plugged into micro USB socket J15 (VBUS=0V)  
- OR J4 set to disable USB Boot  
- EMMC\_DISABLE\_N therefore HIGH  
- On power up BCM2835 boots from eMMC  
- EMMC\_EN\_N\_1V8 can be used as status LED

USB BOOT ENABLE:

Jumper Positions:  
1-2 = USB BOOT ENABLED  
2-3 = USB BOOT DISABLED



Route ringed signals as matched length 100R differential pairs

Route bold-ringed signals as matched length 90R differential pair

VDD\_CORE used for module test only (do not use in normal operation, do not draw current from this pin!)

VIDEOCORE JTAG

