POWER IN

J1
F1
2A
C5 1u 1005
Q3 DMG2305UX
~0V
U14 DMMT5401
R2 47K 1% 1005
R3 47K 1% 1005
D5 SMBJ5.0A
5V
C1 47u 3216

U3
5V
R1 100K 1% 1005
C2 100n 1005
5V
C3 10u 2012
C4 10u 2012
VIN1 EN1
VIN2 EN2
GND
GND
LX1
FB1
LX2
FB2
NC1
NC2
PAD
L1 4.7u 2A
R55 0R 1% 1005
C107 NF 1005
3V3
L2 4.7u 2A
R57 0R 1% 1005
C108 NF 1005
1V8
R58 NF 1005
R56 NF 1005
C7 10u 2012
C8 10u 2012

3V3
5V
C6 100n 1005
U4 APX803-46SAG
VCC
GND
RST
R5 10K 1% 1005
R8 470R 1% 1005
PWR_LOW_N

3V3
R7 470R 1% 1005
D1 RED 1611
POWER OK "PWR" LED
Q1
PWR_LOW_N

CAMERA

J3
CAM1_DN0
CAM1_DP0
CAM1_DN1
CAM1_DP1
CAM1_CN
CAM1_CP
CAM_GPIO0
CAM_GPIO1
SCL0
SDA0
3V3

DISPLAY

J4
DSI1_DN1
DSI1_DP1
DSI1_CN
DSI1_CP
DSI1_DN0
DSI1_DP0
SCL0
SDA0
3V3

4-POLE A/V JACK

J7
AUDIO_L
AUDIO_R
COMPVID

HDMI

J6
HDMI_T2P
HDMI_T2N
HDMI_T1P
HDMI_T1N
HDMI_T0P
HDMI_T0N
HDMI_CKP
HDMI_CKN
HDMI_CEC
HDMI_SCL
HDMI_SDA
H5V
HDMI_HPD

U9 AP2331W
5V
C54 100n 1005
IN OUT
GND
H5V
C56 100n 1005

GPIO EXPANSION

U1E BCM2835
3V3
H4 VDDIO2_1
E4 VDDIO2_2
C67 220n 1005
GPIO1
GPIO0...GPIO27

3V3
R23 1.8K 1% 1005
R24 1.8K 1% 1005
ID_SD
ID_SC
GPIO2
GPIO3

J8 40W 0.1" PIN HDR
3V3
C64 100n 1005
5V
C65 100n 1005
(SDA1)   GPIO2   1 2
(SCL1)   GPIO3   3 4
(GPIO_GCLK) GPIO4 5 6
         GPIO14   GPIO15 (TXD0)
                  (RXD0)
(GPIO_GEN0) GPIO17 GPIO18 (GPIO_GEN1)
(GPIO_GEN2) GPIO27
(GPIO_GEN3) GPIO22   GPIO23 (GPIO_GEN4)
                    GPIO24 (GPIO_GEN5)
(SPI_MOSI) GPIO10   GPIO25 (GPIO_GEN6)
(SPI_MISO) GPIO9   GPIO8 (SPI_CE0_N)
(SPI_SCLK) GPIO11   GPIO7 (SPI_CE1_N)
ID_SD   ID_SC
GPIO5   GPIO6   GPIO12
GPIO13   GPIO19 GPIO16
GPIO26   GPIO20
         GPIO21

ID_SD and ID_SC PINS:
These pins are reserved for ID EEPROM.
At boot time this I2C interface will be
interrogated to look for an EEPROM
that identifies the attached board and
allows automagic setup of the GPIOs
(and optionally, Linux drivers).
DO NOT USE these pins for anything other
than attaching an I2C ID EEPROM. Leave
unconnected if ID EEPROM not required.

Raspberry Pi
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Sheet 1 of 1