Power-over-coax

COAX+
J1
SMA-J-P-H-RA-TH1
L1
L2
47uH
+5V
470 Ohms @ 100MHz
R1
2K
C12
10uF
C13
10uF
GND
GND

Status LED

+5V
R2
2K
D1
LED
GND

Voltage regs

+5V
U1
NCV8154MW180280TBG
+1V8
C1
1uF
IN1
IN2
OUT1
+2V8
C2
1uF
EN1
EN2
OUT2
C3
1uF
GND GND PAD
GND

I2C pullups

+2V8
R5
2K
R6
2K
SCL
SDA

GPO header

J4
Conn_02x03_Odd_Even
GPO2
GPO3
+5V
GPO1
R12
0
GPO0
GND

LED ring headers

SCL
SDA
J2
Conn_01x02
+2V8
+5V
GND
J3
Conn_01x03

Serializer

C24
0.1uF
COAX+
C25
47nF
DOUT+ 13
DOUT− 12
R3
50
R13
0
GPO0
GND
VDDCML 14
VDDT 11
VDDPLL 10
VDDD 28
VDDIO 25
HSYNC 1   LV
VSYNC 2   FV
GPO[0] 15
GPO[1] 16
CPO[2]/CLKOUT 17
GPO[3]/CLKIN 18
GPO1
GPO2
GPO3
DIN[0] 19   DIN0
DIN[1] 20   DIN1
DIN[2] 21   DIN2
DIN[3] 22   DIN3
DIN[4] 23   DIN4
DIN[5] 24   DIN5
DIN[6] 26   DIN6
DIN[7] 27   DIN7
DIN[8] 29   DIN8
DIN[9] 30   DIN9
DIN[10] 31
DIN[11] 32
MODE 8   MODE
ID[x] 6   IDX
PCLK 3   PCLK
PDB 9   PDB
RES 7
SDA 5   SDA
SCL 4   SCL
VSS 33
GND
DS90UB933-Q1
U2

+2V8
R7
10K
PDB
C35
1uF
GND
+1V8
R8
10K
MODE
R9
100K
GND

+1V8
L3
470 Ohms @ 100MHz
C18
10nF
C19
0.1uF
C20
4.7uF
VDDT
GND
+1V8
L4
470 Ohms @ 100MHz
C21
10nF
C22
0.1uF
C23
4.7uF
VDDPLL
GND
+1V8
L5
470 Ohms @ 100MHz
C26
10nF
C27
0.1uF
C28
4.7uF
VDDCML
GND
+2V8
C29
10nF
C30
0.1uF
VDDIO
GND
+1V8
C31
10nF
C32
0.1uF
VDDD
GND

CMOS image sensor

VAA VAA VAA_PIX VAA_PIX VDD_PLL VDD VDD VDD_IO VDD_IO VDD_IO
DOUT0 33
DOUT1 34
DOUT2 35
DOUT3 36
DOUT4 37
DOUT5 38
DOUT6 40
DOUT7 41
DOUT8 42
DOUT9 43
DOUT10 44
DOUT11 45
DIN0
DIN1
DIN2
DIN3
DIN4
DIN5
DIN6
DIN7
DIN8
DIN9
STANDBY_BAR 14   nSTANDBY
RESET_BAR 16   nRESET
TRIGGER 15   TRIGGER
R11
0
GPO0
SADDR 13   SADDR
SCLK 4   SCL
SDATA 5   SDA
EXTCLK 31   EXTCLK
FV 7   FV
LV 8   LV
PIXCLK 32   PCLK
STROBE 9
OE 17
TEST TEST TEST AGND AGND DGND DGND DGND RSVD
U3
MT9P031
GND

Pixel clock generator

+2V8
C34
10nF
R10
DNL
U4
SIT_2.5mmx2mm
OE/nST/NC   VDD 4
GND   OUT 3   EXTCLK
GND
+2V8
R4
1K
nRESET
C33
1uF
GND

+2V8
C4 0.1uF
C5 0.1uF
C6 0.1uF
C7 0.1uF
C8 0.1uF
C9 0.1uF
C10 0.1uF
VDD_IO
C11 1uF
VAA
C17 10uF
+1V8
GND
+1V8
C14 0.1uF
C15 0.1uF
VDD
C16 1uF
C36 10uF
GND

Mounting holes

H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole
H5 MountingHole
H6 MountingHole