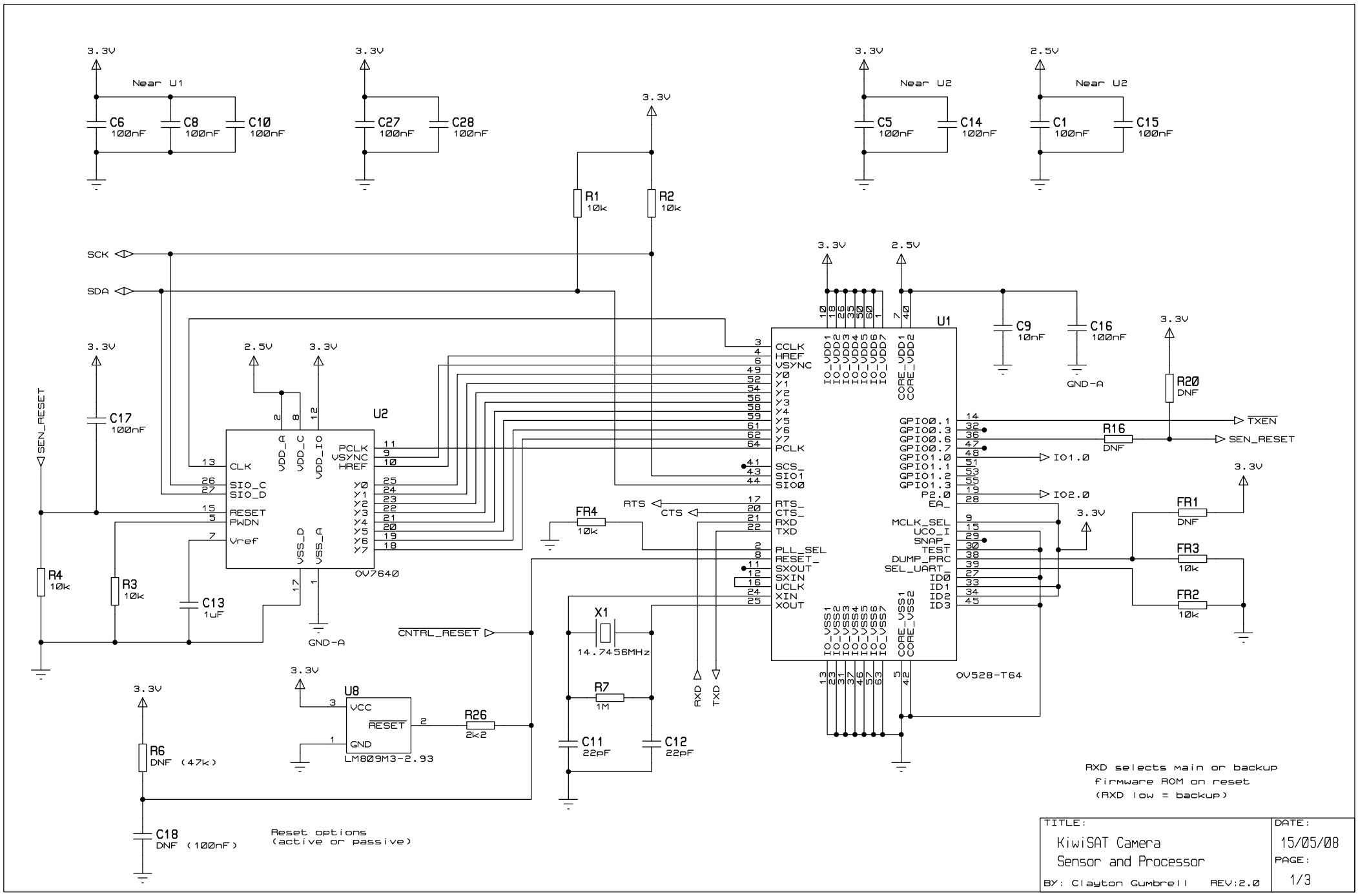
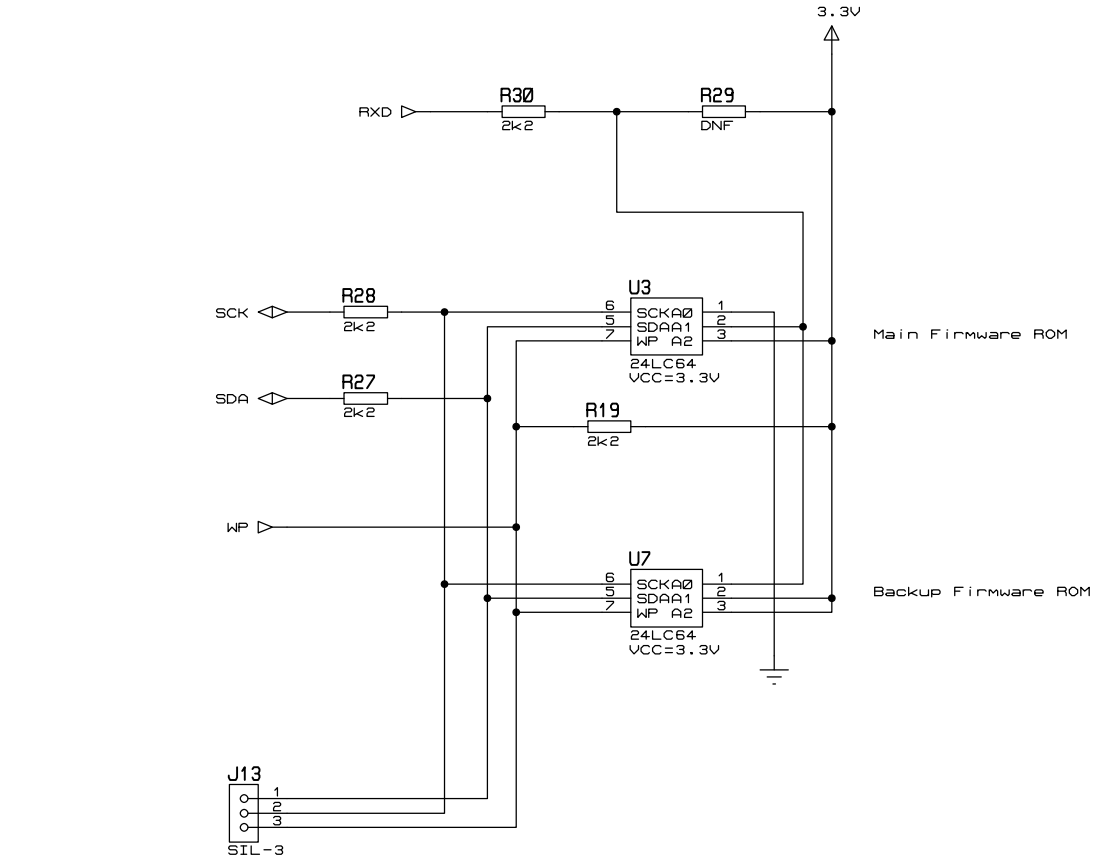
TITLE:	DATE:
KiwiSAT Camera	15/05/08
	PAGE:
BY: Clayton Gumbrell REV:2.0	0/3

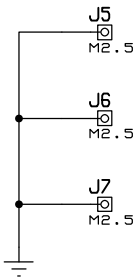

3.3V
Near U1
C6 100nF
C8 100nF
C10 100nF
3.3V
C27 100nF
C28 100nF
3.3V
Near U2
C5 100nF
C14 100nF
2.5V
Near U2
C1 100nF
C15 100nF
3.3V
R1 10k
R2 10k
SCK
SDA
3.3V
2.5V
C9 10nF
C16 100nF
GND-A
3.3V
R20 DNF
U1
C17 100nF
SEN_RESET
2.5V
3.3V
U2
VDD_A
VDD_C
VDD_IO
CLK
SIO_C
SIO_D
RESET
PWDN
Vref
VSS_D
VSS_A
PCLK
VSYNC
HREF
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7
OV7640
CCLK
HREF
VSYNC
SCS_
SIO1
SIO0
RTS_
CTS_
RXD
TXD
PLL_SEL
RESET_
SXOUT
SXIN
UCLK
XIN
XOUT
GPIO0.1
GPIO0.3
GPIO0.6
GPIO0.7
GPIO1.0
GPIO1.1
GPIO1.2
GPIO1.3
P2.0
EA_
MCLK_SEL
UCO_I
SNAP
TEST
DUMP_PRC
SEL_UART_
ID0
ID1
ID2
ID3
OV528-T64
TXEN
SEN_RESET
IO1.0
IO2.0
R16 DNF
3.3V
FR1 DNF
FR3 10k
FR2 10k
R4 10k
R3 10k
C13 1uF
GND-A
FR4 10k
RTS
CTS
CNTRL_RESET
X1
14.7456MHz
R7 1M
C11 22pF
C12 22pF
RXD
TXD
3.3V
U8
VCC
RESET
GND
LM809M3-2.93
R26 2k2
3.3V
R6 DNF (47k)
C18 DNF (100nF)
Reset options
(active or passive)
RXD selects main or backup
firmware ROM on reset
(RXD low = backup)
TITLE:
KiwiSAT Camera
Sensor and Processor
BY: Clayton Gumbrell REV:2.0
DATE:
15/05/08
PAGE:
1/3



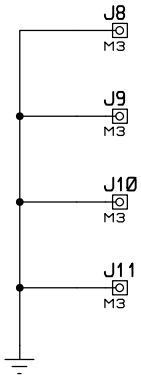
Main Firmware ROM

Backup Firmware ROM

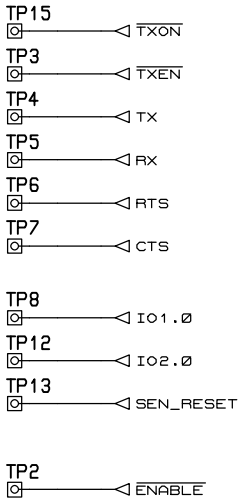
M2.5 holes around sensor

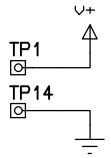


M3 mounting holes

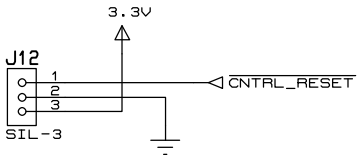


Test points

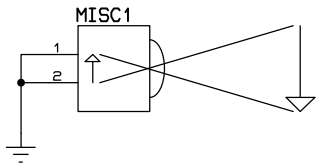




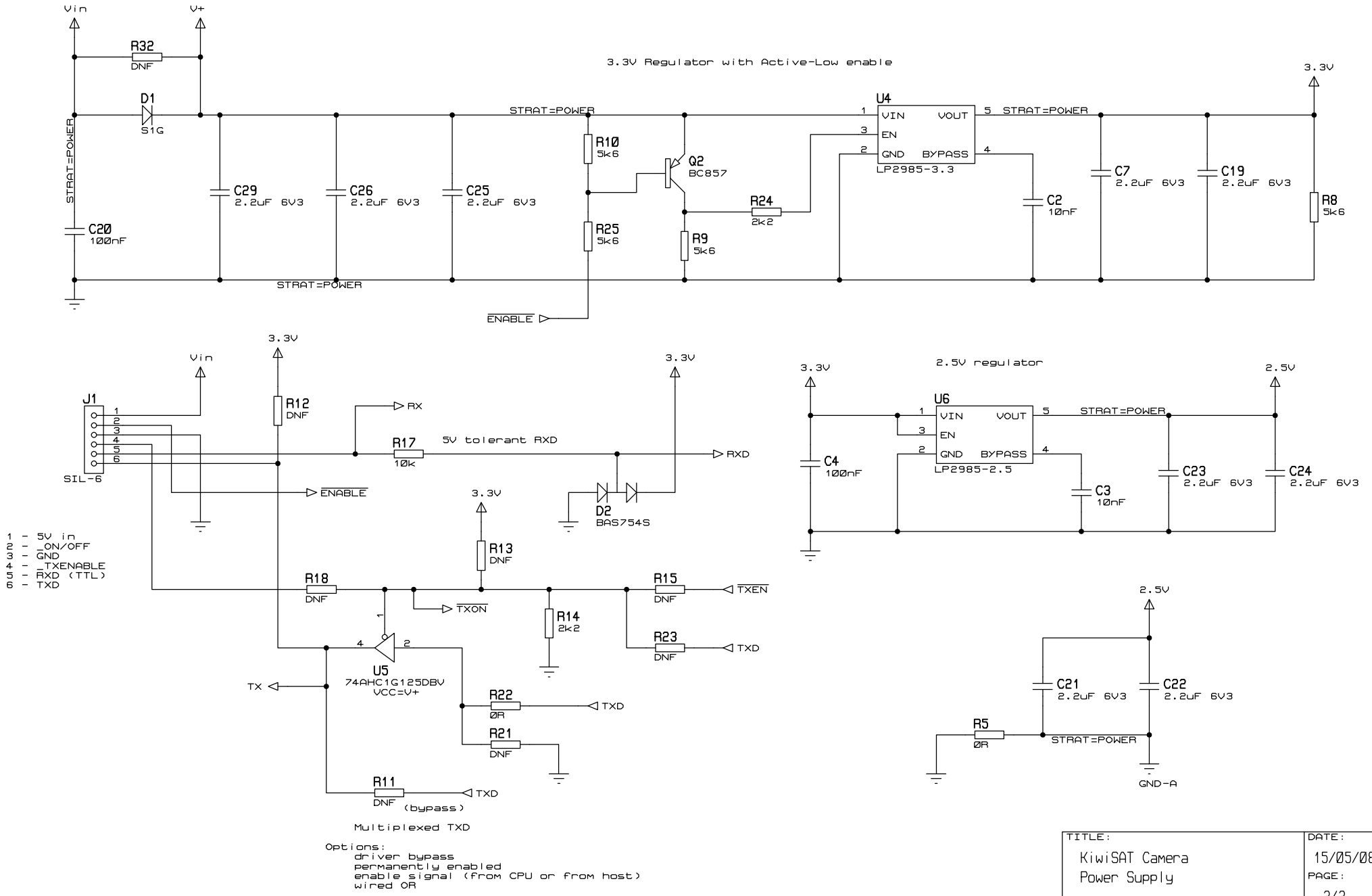
Programming headers



Lens assembly



TITLE: KiwiSAT Camera ROM & Testpads	DATE: 15/05/08
BY: Clayton Gumbrell REV:2.0	PAGE: 2/3



TITLE:	DATE:
KiwiSAT Camera Power Supply	15/05/08
BY: Clayton Gumbrell REV:2.0	PAGE: 3/3