RELAY CONTROL CHART

CONTROL	CODE	DEVICE	FUNCTION	CONNECTOR

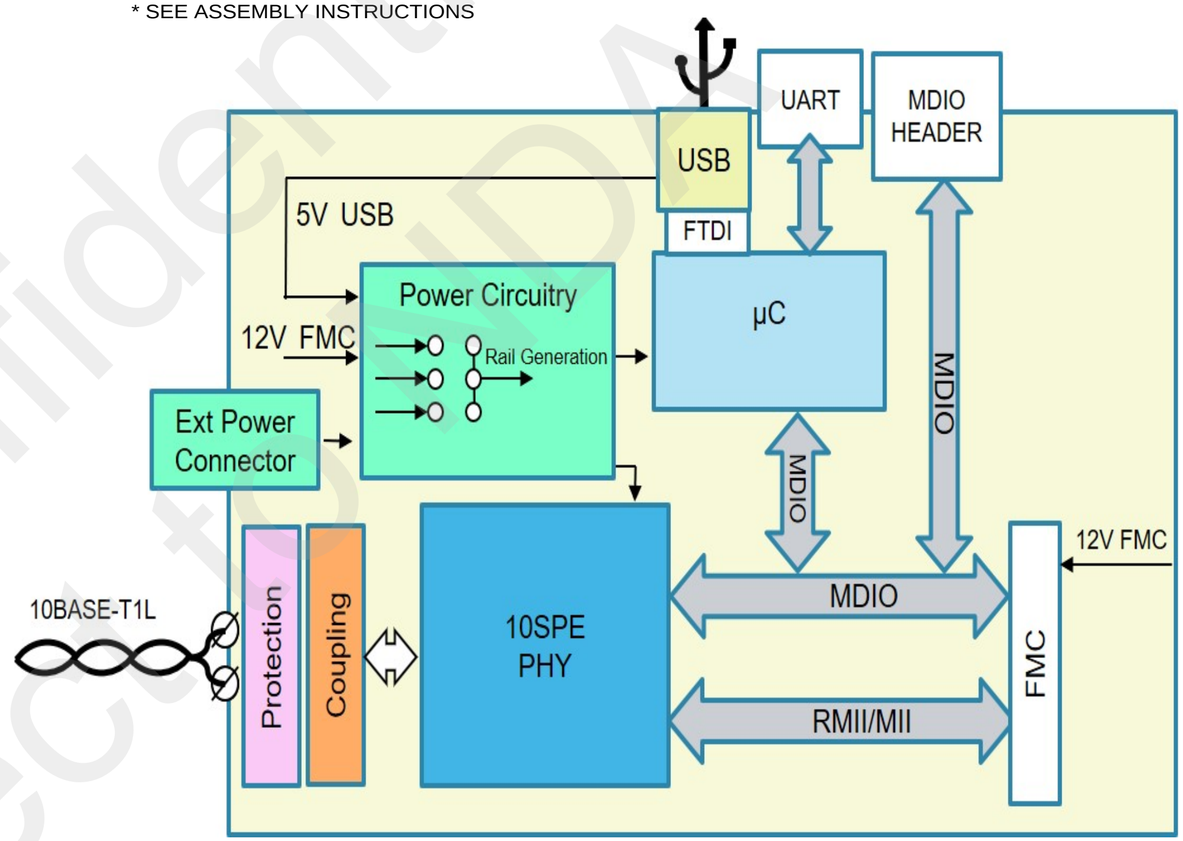
JUMPER TABLE

JP#	ON	OFF
1		
2		
3		
4		
5		

* SEE ASSEMBLY INSTRUCTIONS

REVISIONS

REV	DESCRIPTION	DATE	APPROVED



P.O SPEC.	BK/BD SPEC.	SOCKET OEM	OEM PART#	HANDLER

	DATE
TEMPLATE ENGINEER -	
HARDWARE SERVICES PAT SHEAHAN	
HARDWARE SYSTEMS -	
TEST ENGINEER -	
COMPONENT ENGINEER -	
TEST PROCESS -	
HARDWARE RELEASE -	
DESIGNER -	
PTD ENGINEER TRACEY JOHNSON	
CHECKER -	

SCHEMATIC

ANALOG DEVICES

HW TYPE : Customer Evaluation

EVAL-ADIN1100FMCZ

<DRAWING_TITLE2>

-

-

-

TBD

Product: ADIN1100

MASTER PROJECT TEMPLATE	TESTER TEMPLATE
<MASTER_PROJECT_TEMPLATE>	<TESTER_TEMPLATE>

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES

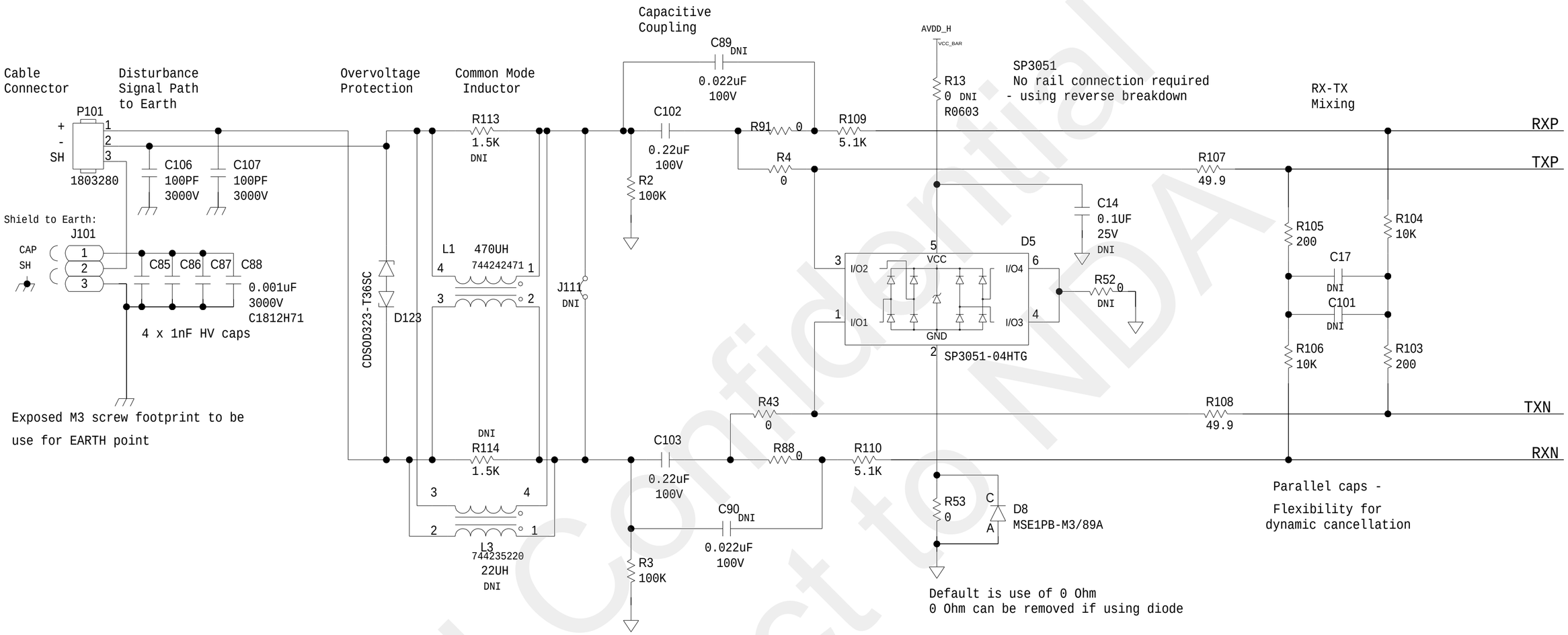
DECIMALS	FRACTIONS	ANGLES
X.XX +-0.010 X.XXX +-0.005	+-1/32	+-2

DRAWING NO.	REV.
02-063798	B

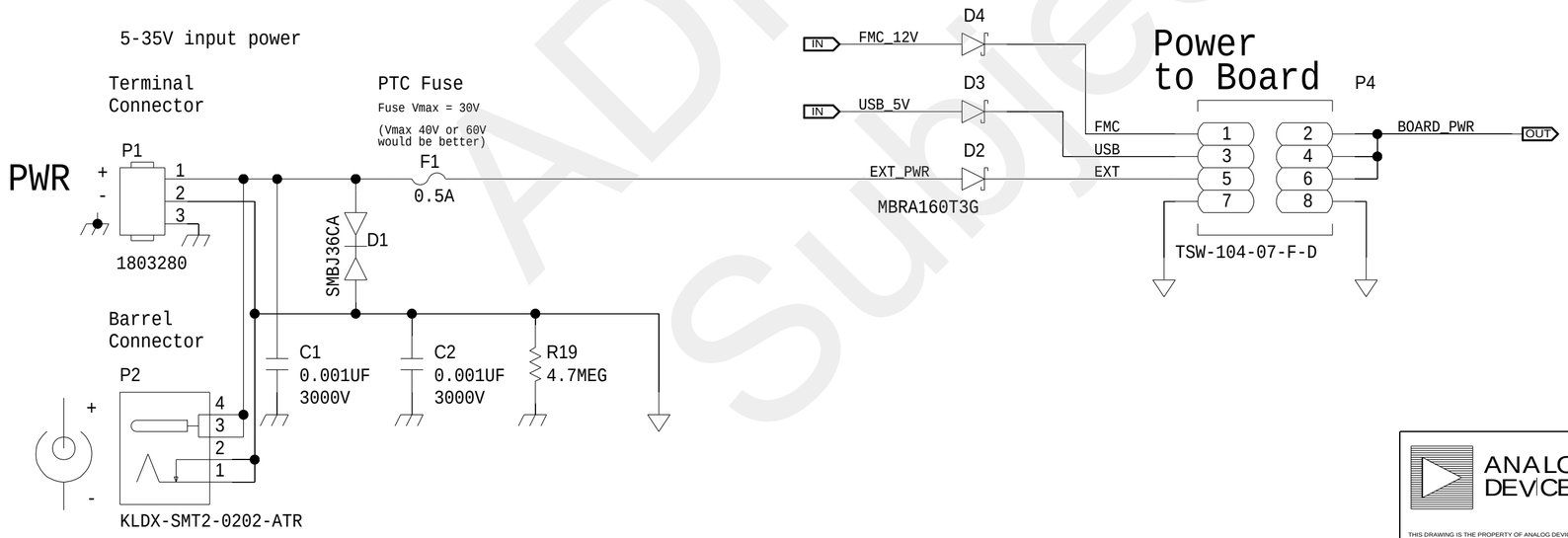
SIZE	SCALE	CODE ID NO.	SHEET
C	1:1	CodeID	SHEET 1 OF 7

ADIN1100 CABLE CONNECTION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



BOARD POWER



SCHEMATIC

HW TYPE : Customer Evaluation
Product: ADIN1100
EVAL-ADIN1100FMCZ

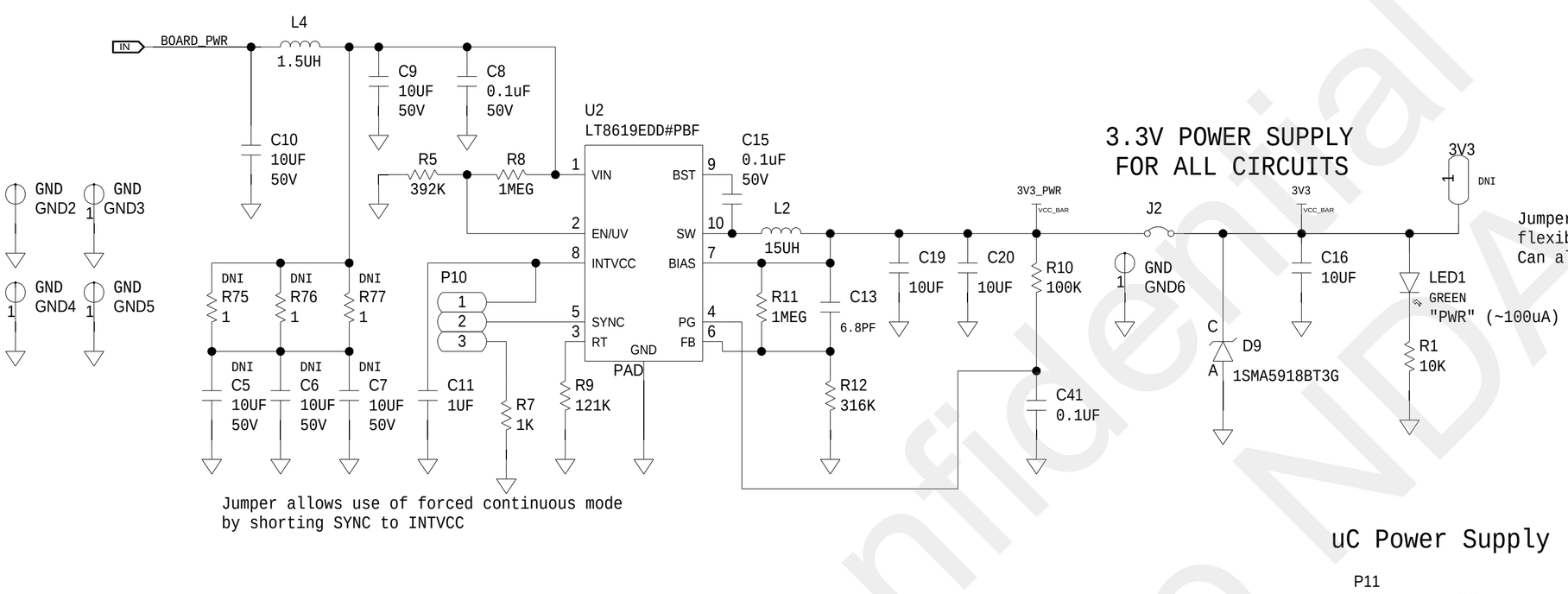
DESIGN VIEW	DRAWING NO.	REV
<DESIGN_VIEW>	02-063798	B

PTD ENGINEER	SIZE	SCALE	SHEET	OF
TRACEY JOHNSON	C	1:1	2	7

BOARD POWER SUPPLY

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

5V TO 60V INPUT

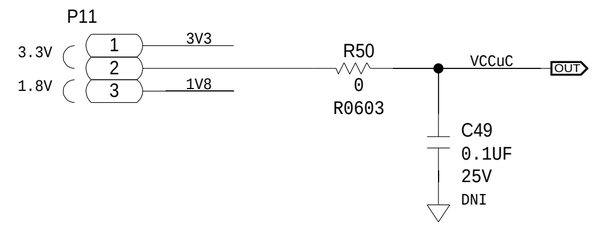


3.3V POWER SUPPLY FOR ALL CIRCUITS

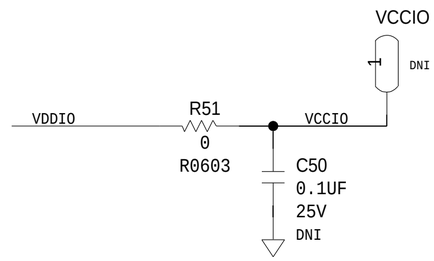
Jumper allows isolation of 3.3V supply & flexibility to drive externally if required
Can also be used to measure current.

Jumper allows use of forced continuous mode by shorting SYNC to INTVCC

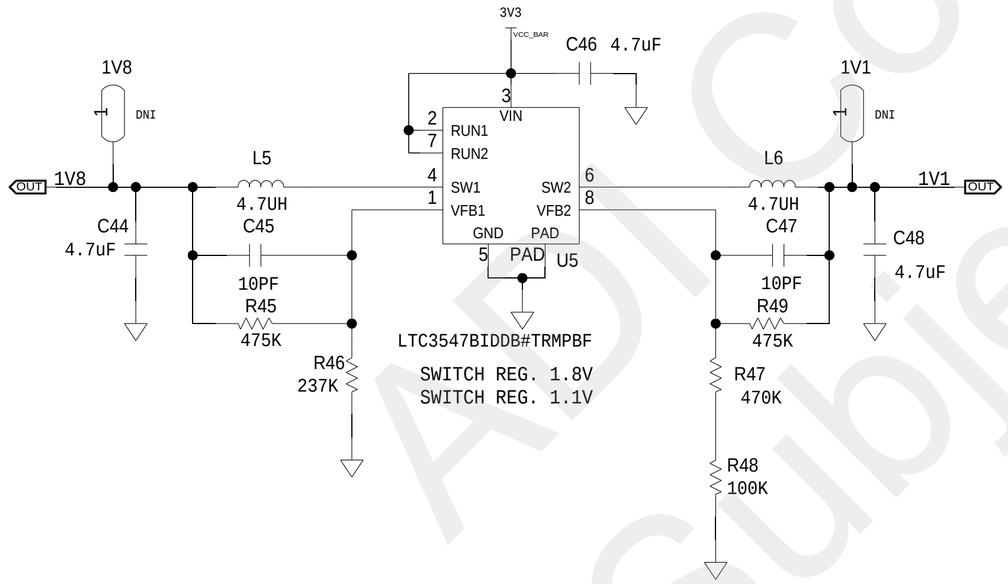
uC Power Supply



FMC I/O Supply connected to PHY VDDIO



0 Ohm resistors can be replaced with ferrite bead if needed



ANALOG DEVICES

SCHEMATIC

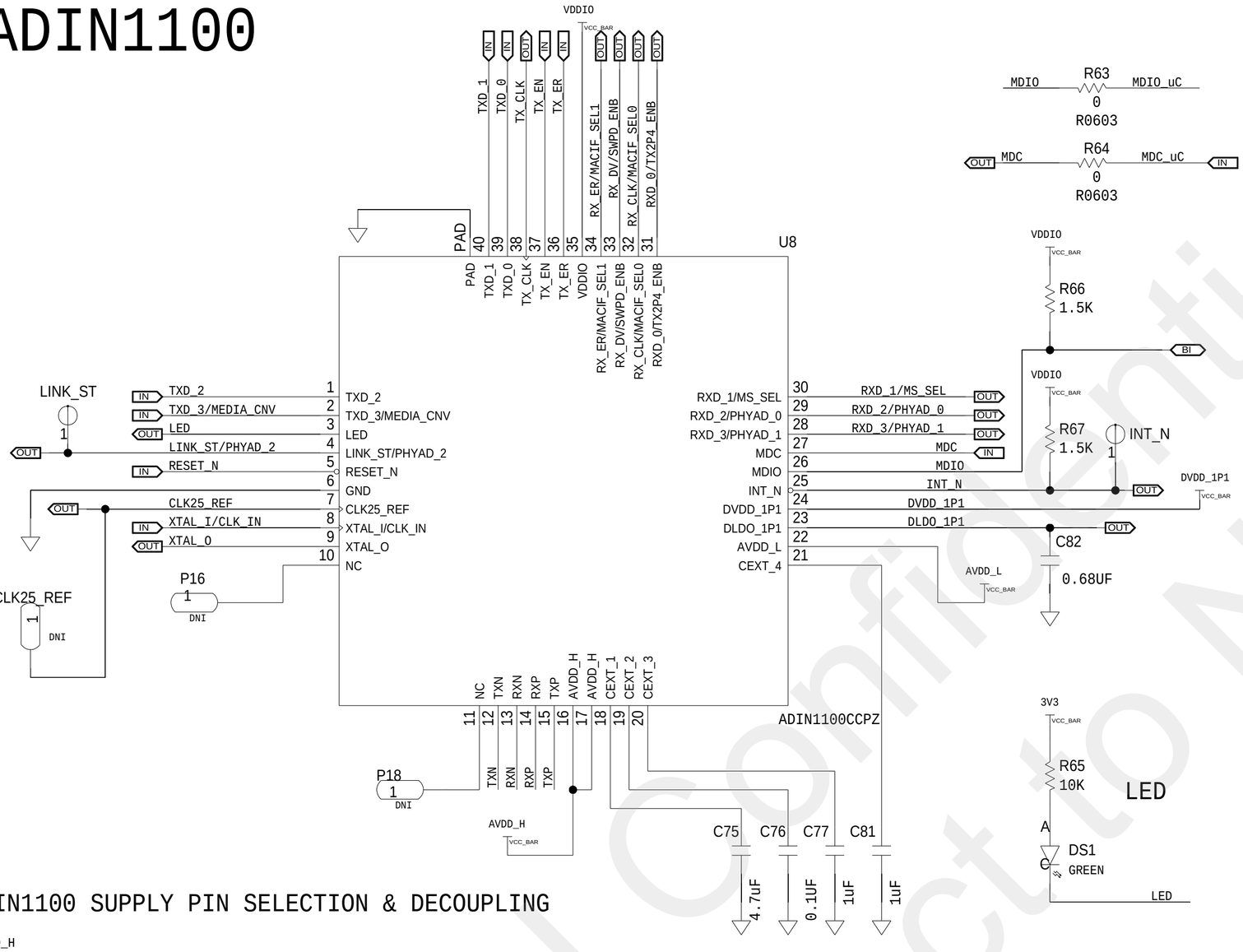
HW TYPE : Customer Evaluation
Product: ADIN1100
EVAL-ADIN1100FMCZ

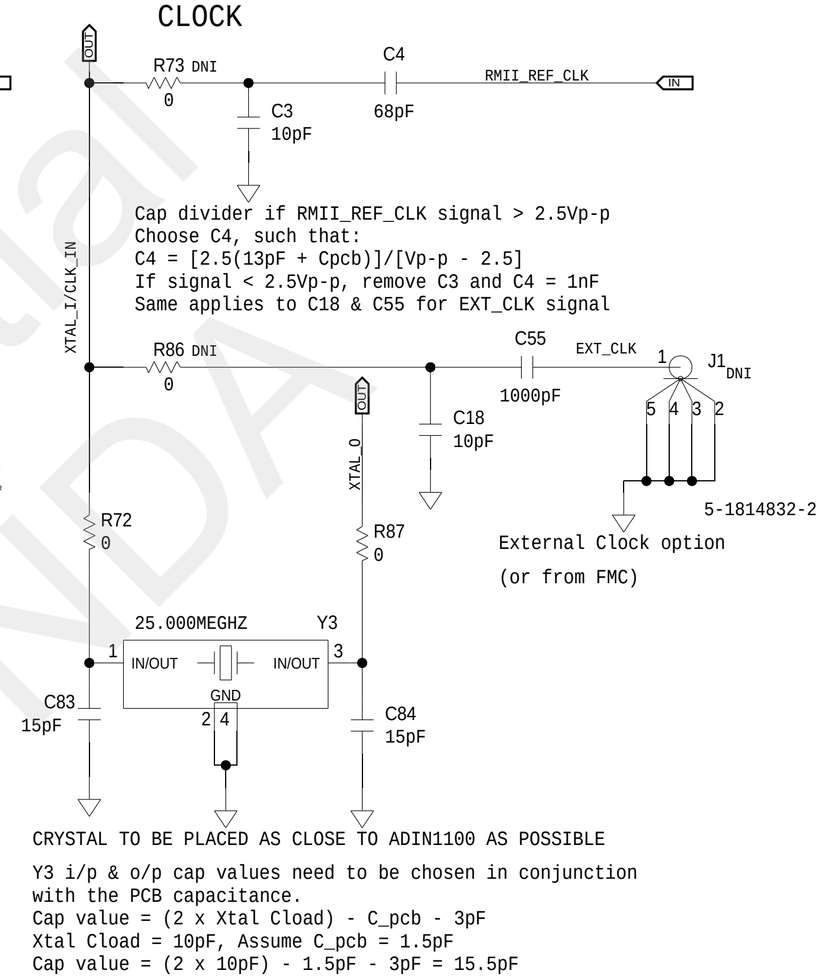
DESIGN VIEW	DRAWING NO.	REV
<DESIGN_VIEW>	02-063798	B

PTD ENGINEER	SIZE	SCALE	SHEET	OF
TRACEY JOHNSON	C	1:1	3	7

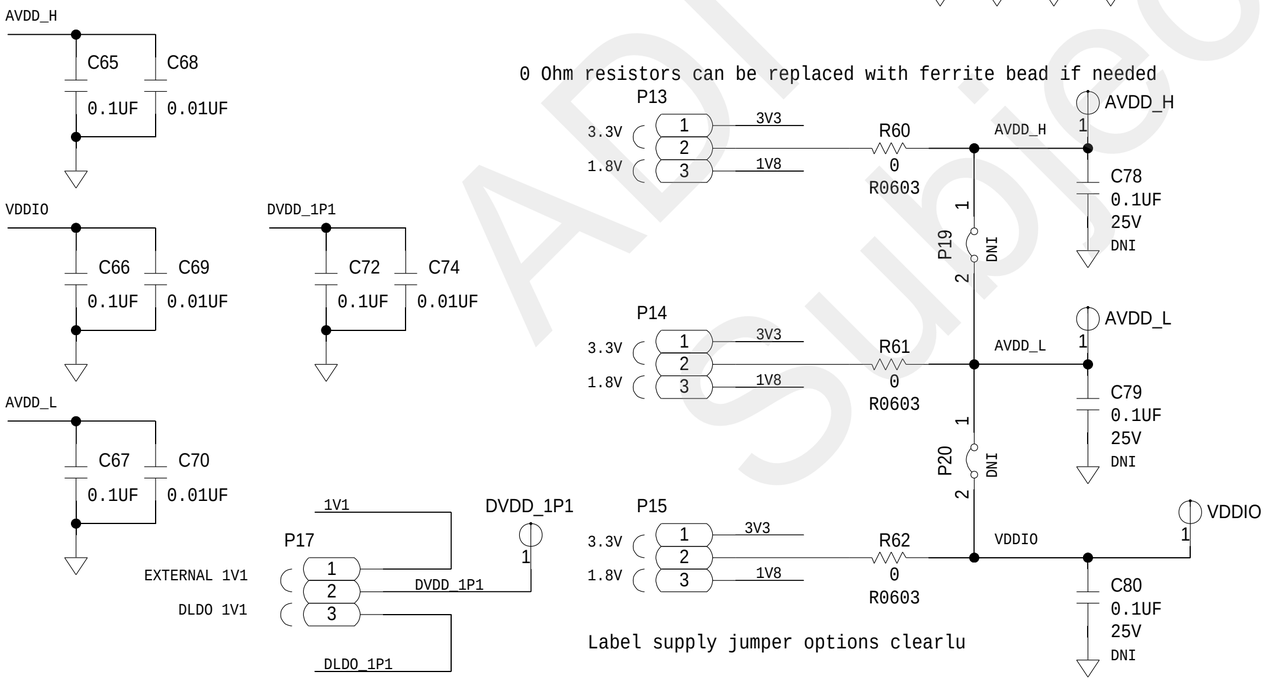
ADIN1100

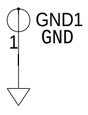
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED





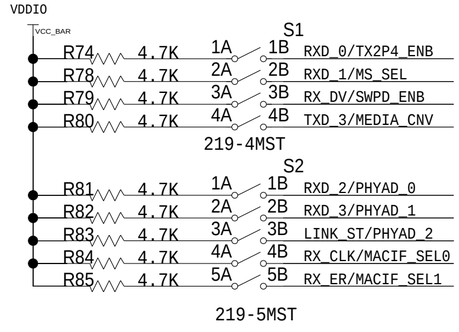
ADIN1100 SUPPLY PIN SELECTION & DECOUPLING





H/W PIN CONFIG

Depending on internal weak pull-downs for low setting
High setting is achieved by closing switch to connect
to 10k pull-up to VDDIO.



SCHEMATIC

HW TYPE : Customer Evaluation
Product: ADIN1100
EVAL-ADIN1100FMCZ

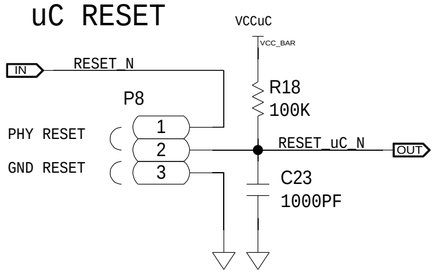
DESIGN VIEW	DRAWING NO.	REV
<DESIGN_VIEW>	02-063798	B

PTD ENGINEER	SIZE	SCALE	SHEET	OF
TRACEY JOHNSON	C	1:1	4	7

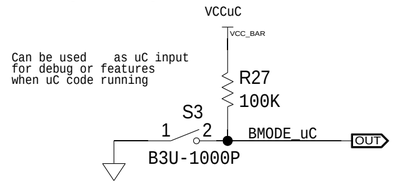
Cortex M4 uC

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

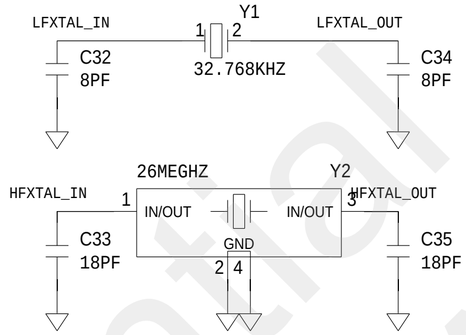
uC RESET



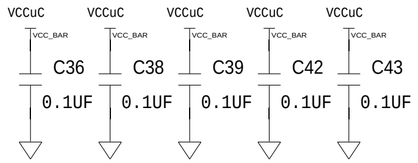
uC (UART) Bootload



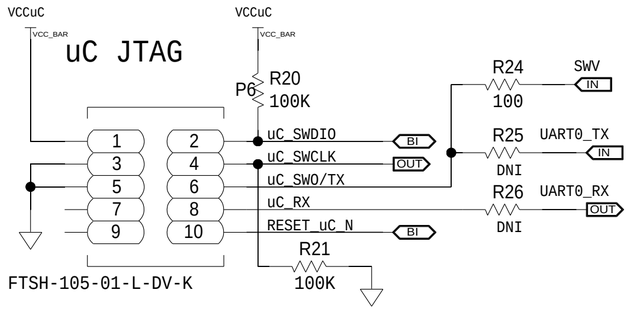
uC Clocks



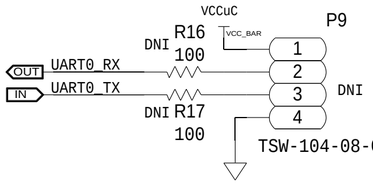
uC Decoupling Caps



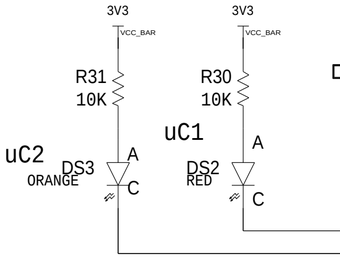
uC JTAG

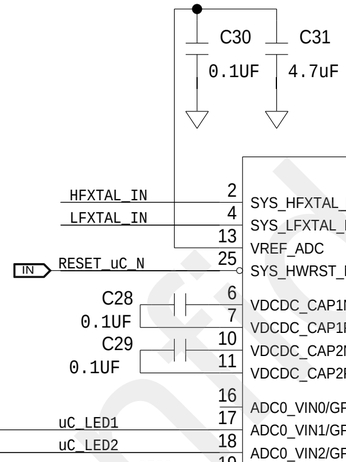


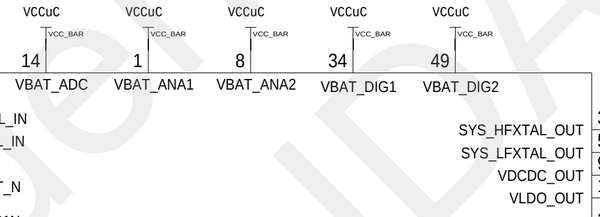
ADI DEBUG

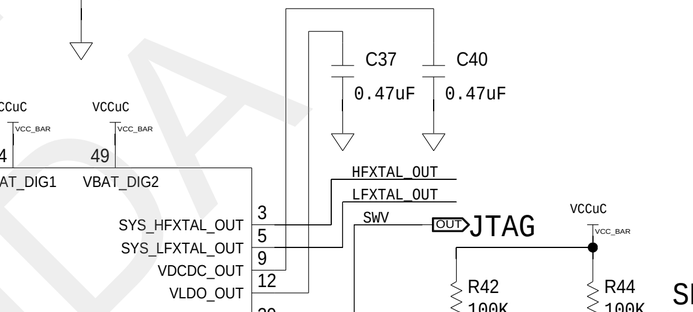


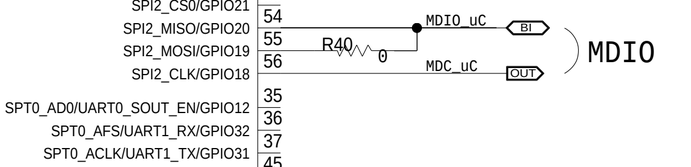
LEDs

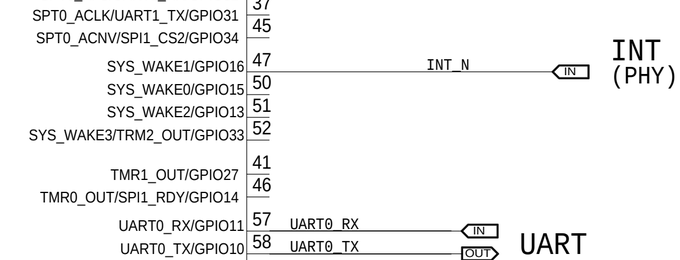












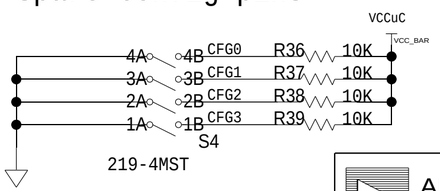
JTAG

SPI0 for MAC on MAC-PHY board

(Protection for USB)

FT232 is always powered, either
from USB VBUS or from board 3.3V
Otherwise draws power from VCCIO
and affects RXD and TXD
When powered from board 3.3V,
held in reset and takes only <100uA

Spare Config pins



SCHEMATIC

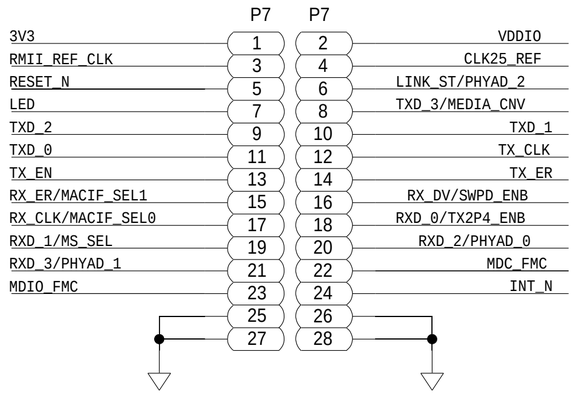
HW TYPE : Customer Evaluation
Product: ADIN1100
EVAL-ADIN1100FMCZ

DESIGN VIEW	DRAWING NO.	REV
<DESIGN_VIEW>	02-063798	B

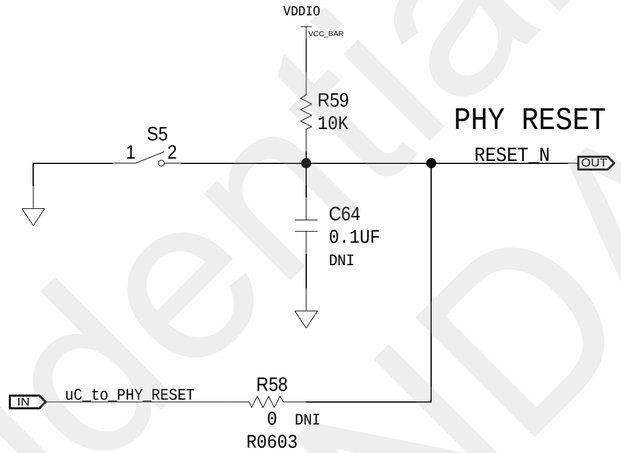
PTD ENGINEER	SIZE	SCALE	SHEET	OF
TRACEY JOHNSON	C	1:1	5	7

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

MII HEADER

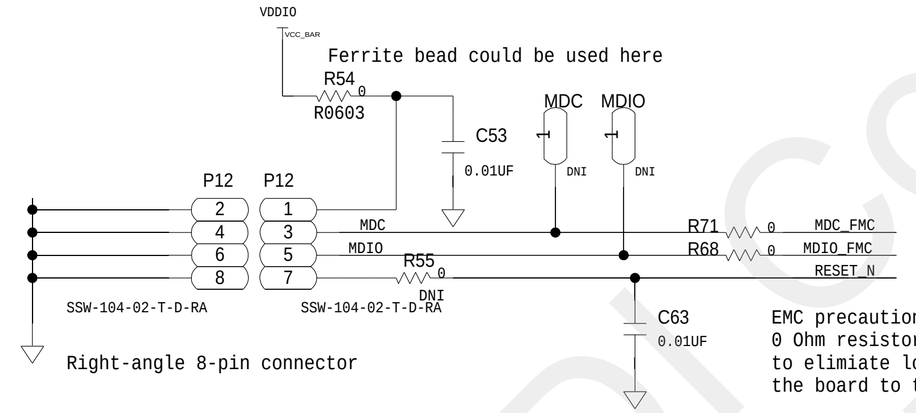


BOARD RESET



Reset push-button switch can be used to reset both the PHY & the uC. Alternative means of resetting the PHY comes from the PMC or from an I/O pin of the uC. Provision is made on the uC schematic oage to hold the uC in reset if needed.

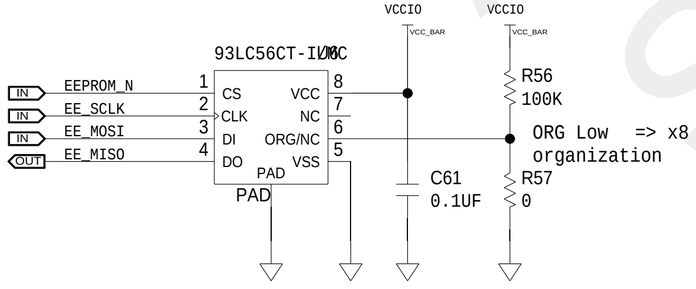
MDIO 8-PIN CONNECTOR



EMC precaution:
0 Ohm resistors on MDC & MDIO signals to elimiate long traces going across the board to the FMC connector

BOARD EEPROM

EEPROM to identify the board type & revision & unique ID



SCHEMATIC

HW TYPE : Customer Evaluation
Product: ADIN1100
EVAL-ADIN1100FMCZ

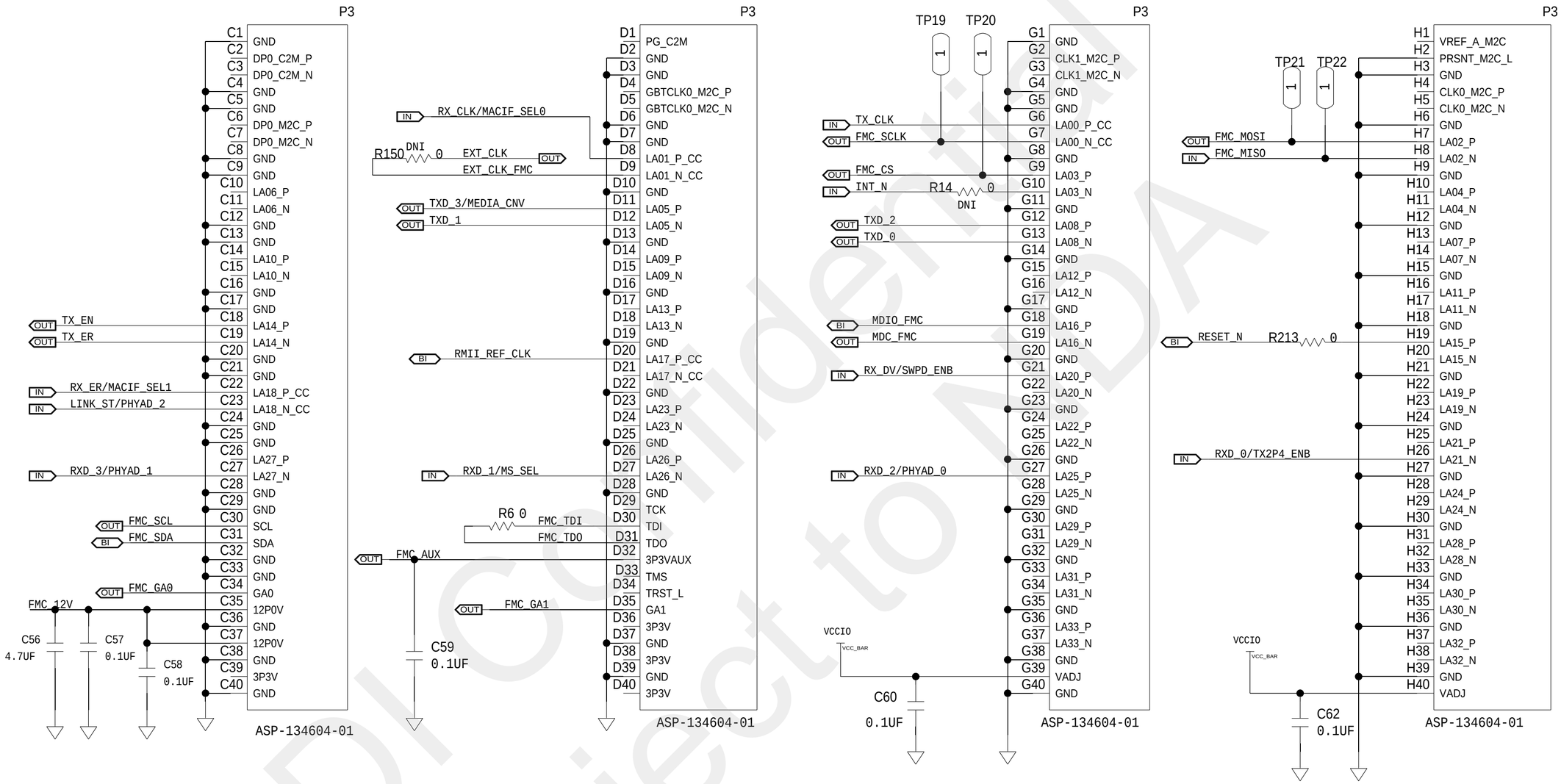
DESIGN VIEW	DRAWING NO.	REV
<DESIGN_VIEW>	02-063798	B

PTD ENGINEER	SIZE	SCALE	SHEET	OF
TRACEY JOHNSON	C	1:1	6	7

FMC CONNECTOR

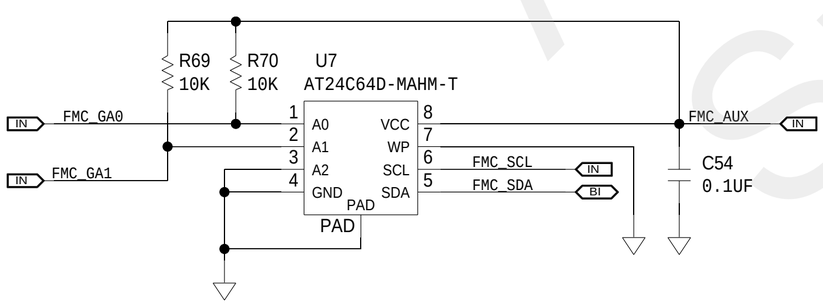
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

Spare SPI interface connected to testpoints



FMC EEPROM

EEPROM required in VITAS57.1 Standard



ANALOG DEVICES

SCHEMATIC

HW TYPE : Customer Evaluation
Product: ADIN1100
EVAL-ADIN1100FMCZ

DESIGN VIEW	DRAWING NO.	REV
<DESIGN_VIEW>	02-063798	B

PTD ENGINEER	SIZE	SCALE	SHEET	OF
TRACEY JOHNSON	C	1:1	7	7