Revision History			DATE
X00_REV01	Created PCB Part Number:		
X00_REV02	PD69104 is replaced with PD69108	Page 3	2012/10/29
	Add notes for 2KV solution	Page 6 to page 13	2012/11/06
X00_REV03	Add line filter to each port	Page 6 to page 13	2012/11/17
	Add J16 for debug	Page 3	2012/11/29
X01_REV01	Add C214, C215 on H1 C204, C205 change footprint from CS1808 to RS1206 and populate 20M Ohm	Page 3	2013/07/19
	Change T1 footprint with bigger PTH	Page 3	2013/09/23

Page Descriptions

01 Title
02 Block Diagram
03 Main
04 ESPI Isolation
05 PoE controller
06 PoE Manager Slave 1
07 PoE Manager Slave 2
08 PoE Manager Slave 3
09 PoE Manager Slave 4
10 PoE Manager Slave 5
11 PoE Manager Slave 6
12 PoE Manager Slave 7
13 PoE Manager Socket

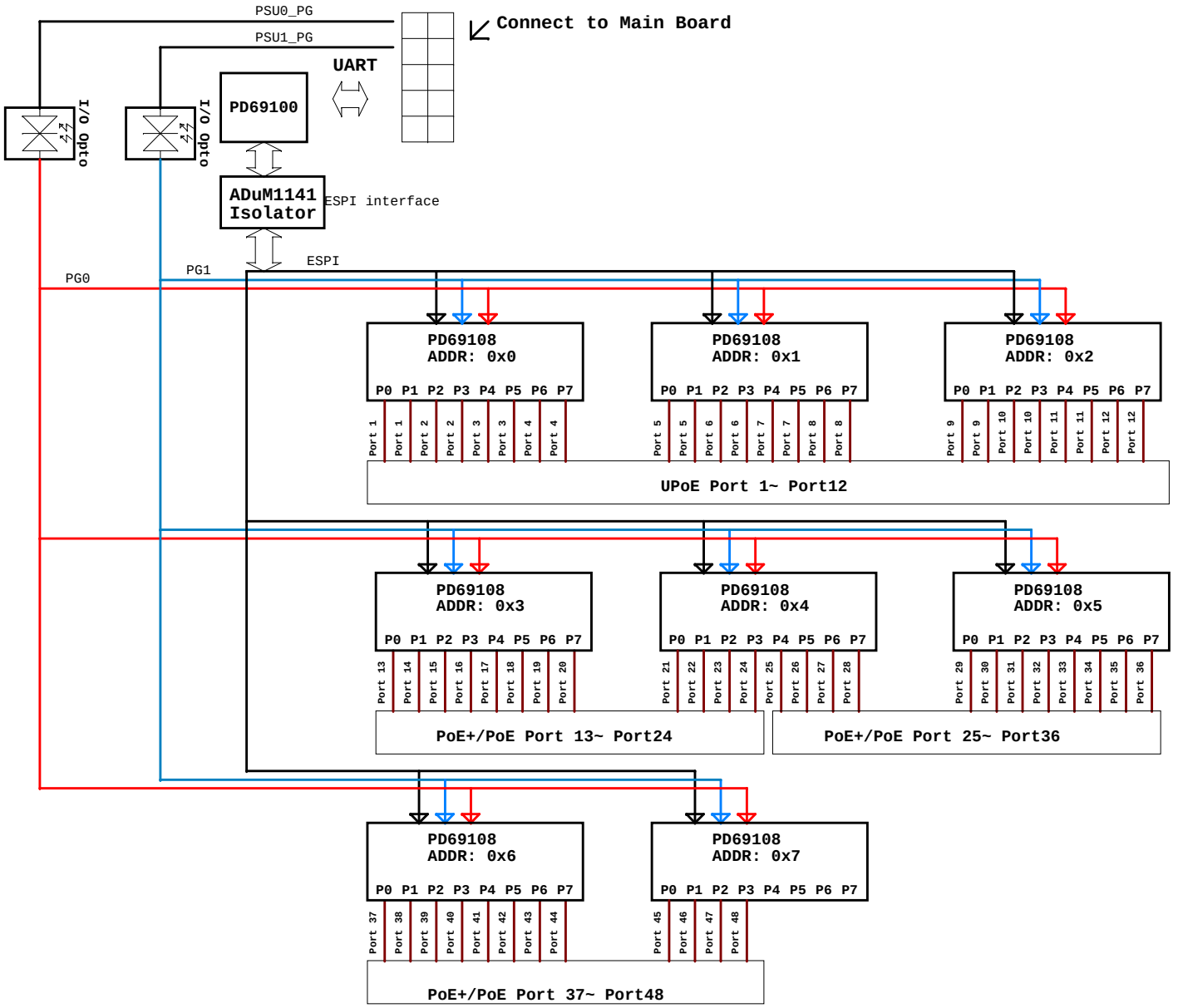
SCHEMATICS OF	FILE NAME	DRAWN	DESIGNED	CHECKED	APPROVED

Agema Systems, INC.

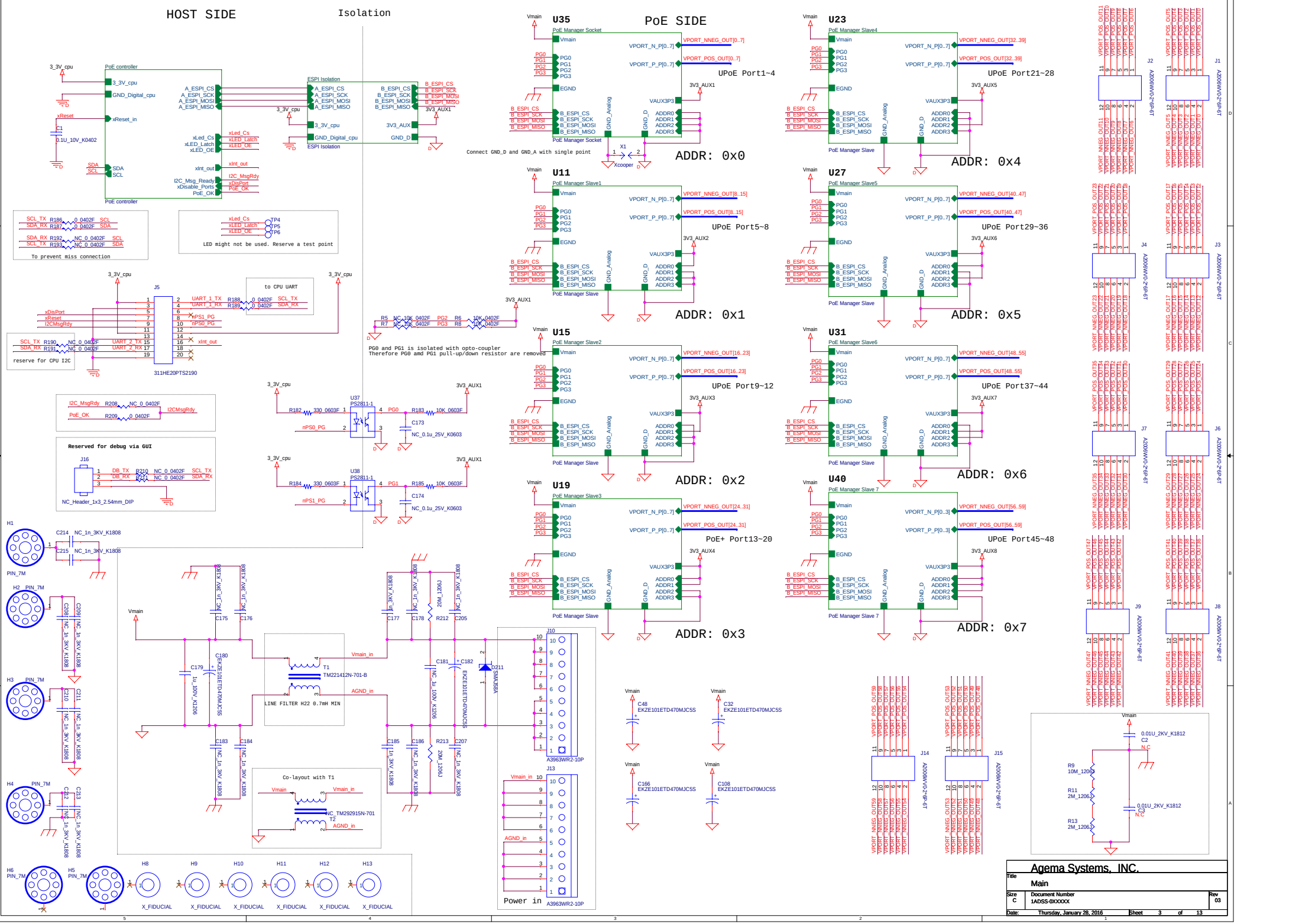
Title: Title

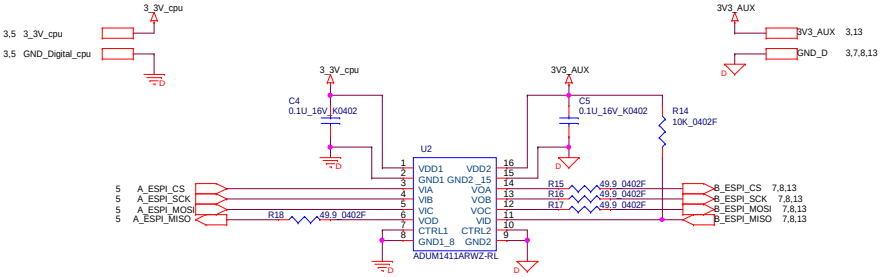
Size: C | Document Number: 1ADSS-0XXXXX | Rev: 03

Date: Thursday, January 28, 2016 | Sheet 1 of 13

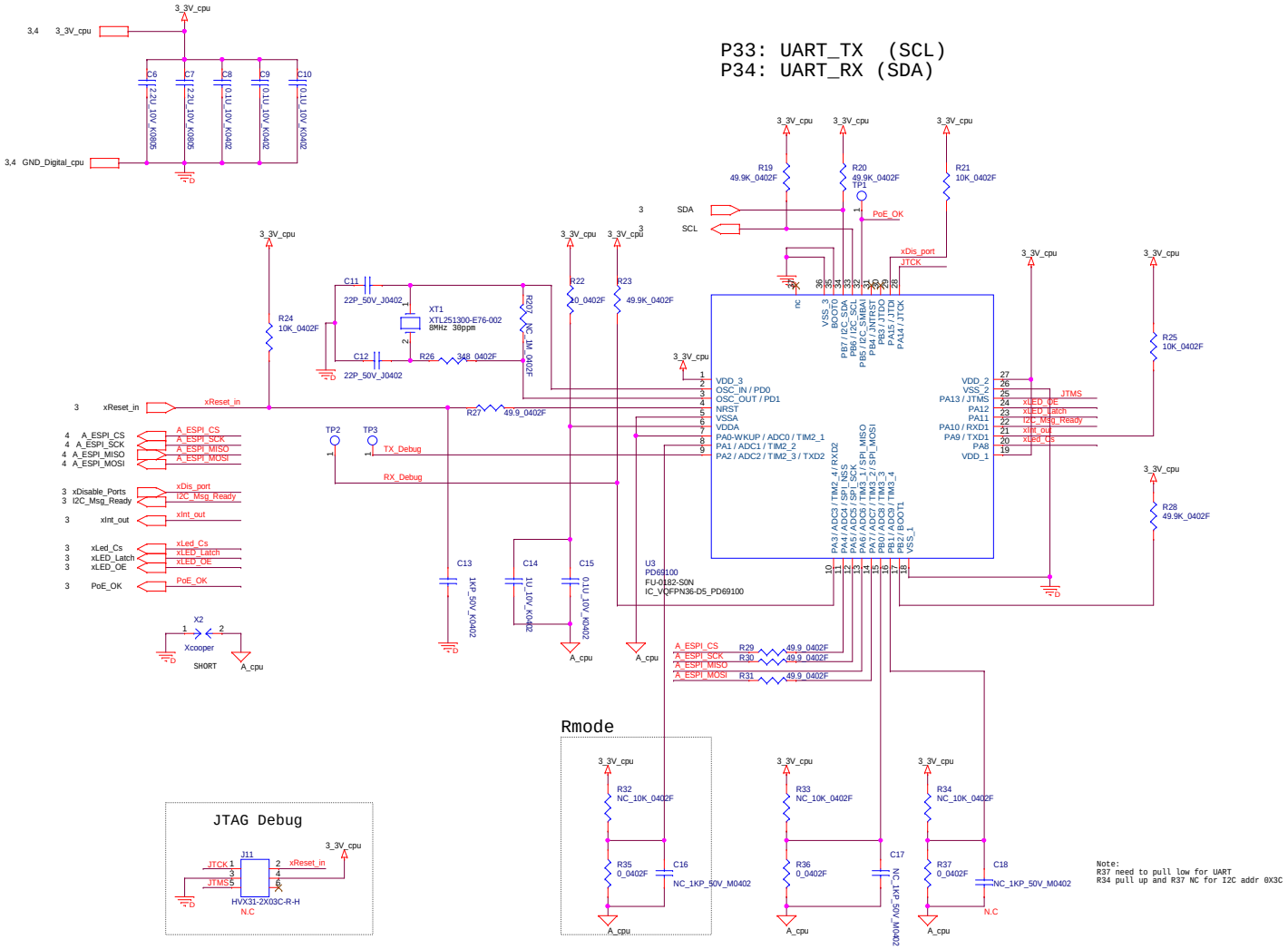


Agema Systems, INC.		
Title: Block Diagram		
Size: C	Document Number: 1ADSS-0XXXXX	Rev: 03
Date: Thursday, January 28, 2016	Sheet 2 of 13	

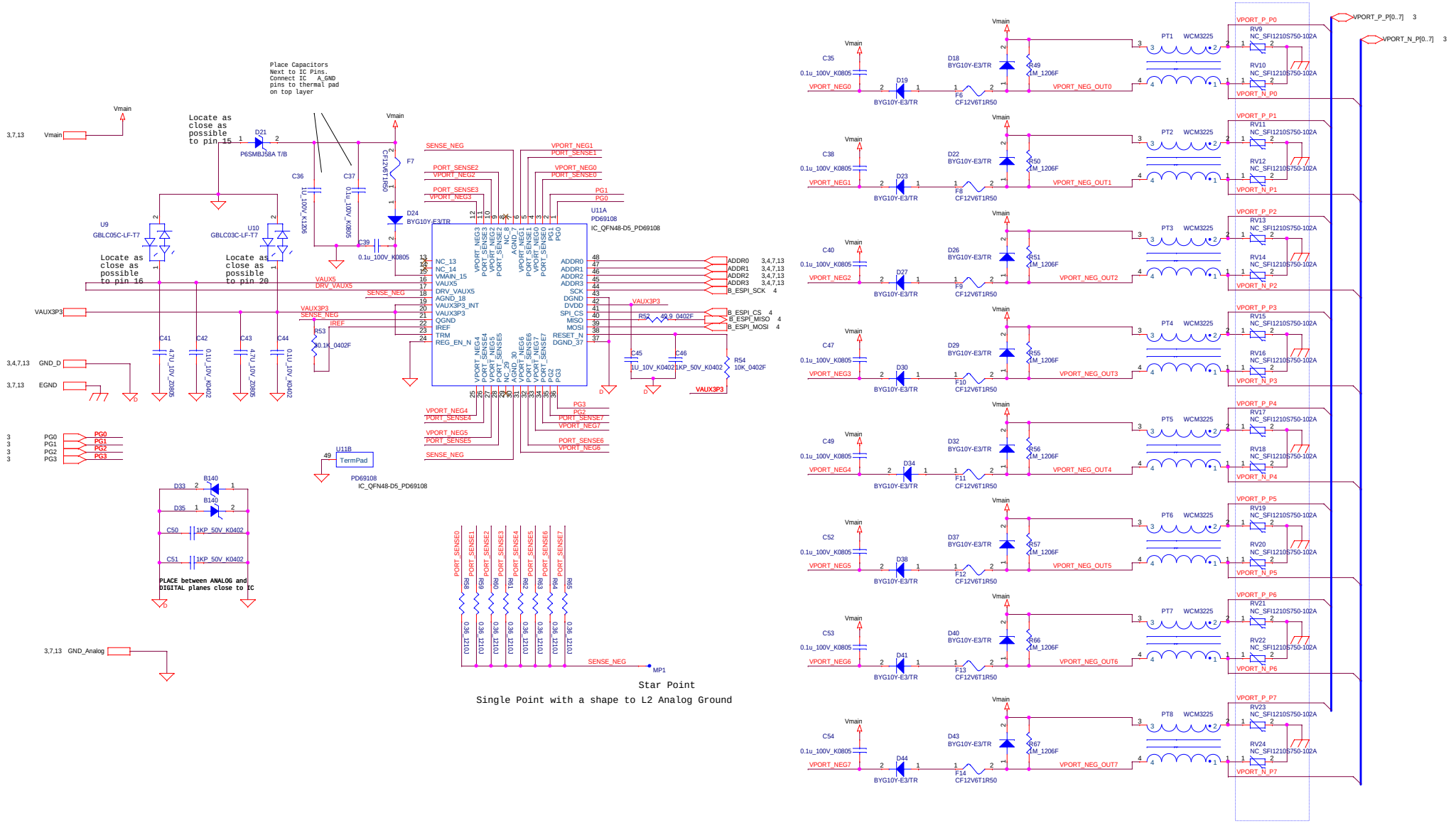

HOST SIDE
Isolation
PoE SIDE
PoE controller
ESPI Isolation
U35
PoE Manager Socket
UPoE Port1~4
ADDR: 0x0
U23
PoE Manager Slave4
UPoE Port21~28
ADDR: 0x4
U11
PoE Manager Slave1
UPoE Port5~8
ADDR: 0x1
U27
PoE Manager Slave5
UPoE Port29~36
ADDR: 0x5
U15
PoE Manager Slave2
UPoE Port9~12
ADDR: 0x2
U31
PoE Manager Slave6
UPoE Port37~44
ADDR: 0x6
U19
PoE Manager Slave3
PoE+ Port13~20
ADDR: 0x3
U40
PoE Manager Slave 7
UPoE Port45~48
ADDR: 0x7
Connect GND_D and GND_A with single point
PG0 and PG1 is isolated with opto-coupler
Therefore PG0 amd PG1 pull-up/down resistor are removed
To prevent miss connection
LED might not be used. Reserve a test point
reserve for CPU I2C
to CPU UART
311HE20PTS2190
Reserved for debug via GUI
NC_Header_1x3_2.54mm_DIP
LINE FILTER H22 0.7mH MIN
Co-layout with T1
Power in
X_FIDUCIAL
Agema Systems, INC.
Main
Document Number 1ADSS-0XXXXX
Rev 03
Thursday, January 28, 2016
Sheet 3 of 13



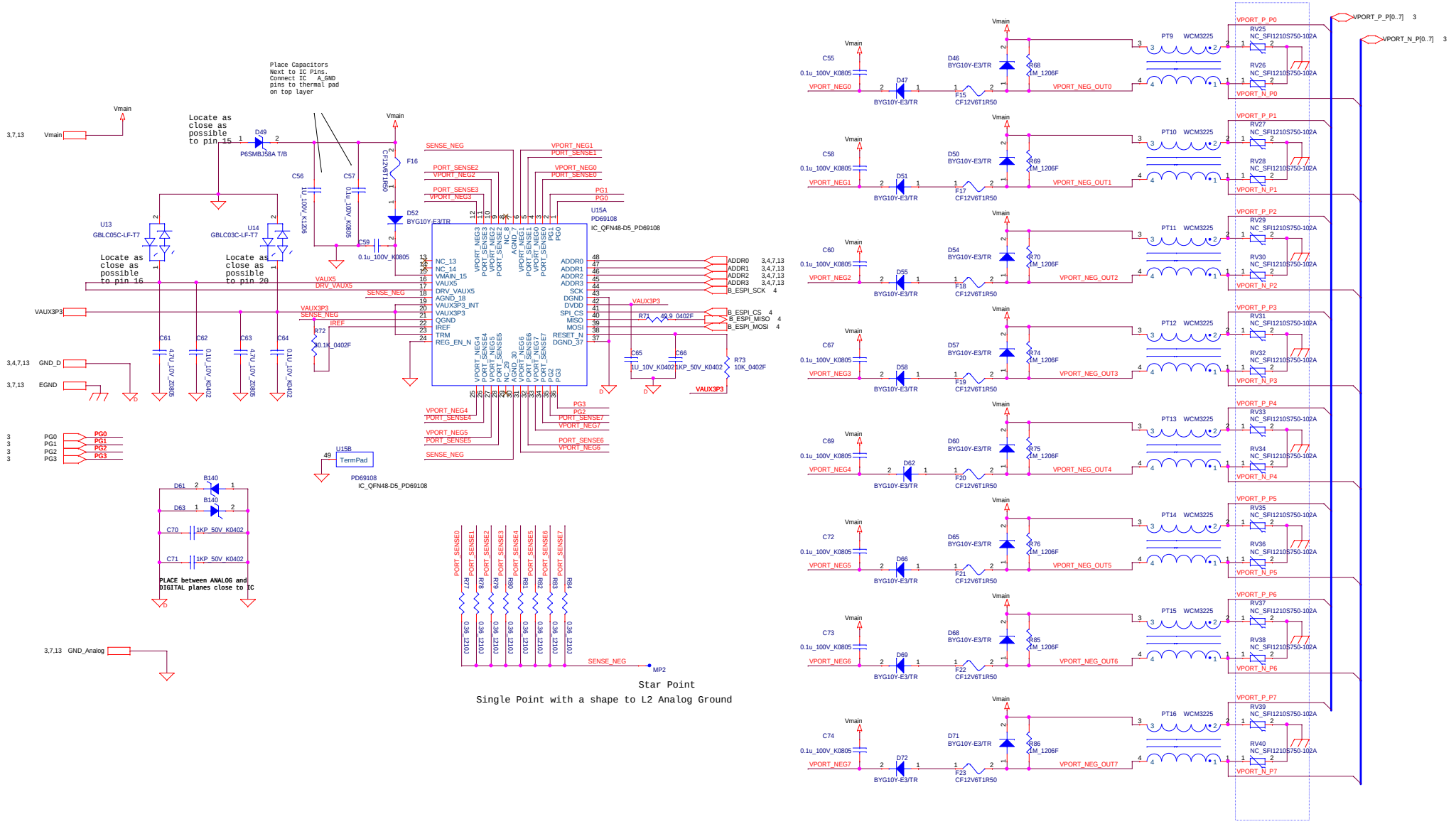
Agema Systems, INC.		
Title: ESPI Isolation		
Size: C	Document Number: 1ADSS-0XXXXX	Rev: 03
Date: Thursday, January 28, 2016	Sheet 4 of 13	



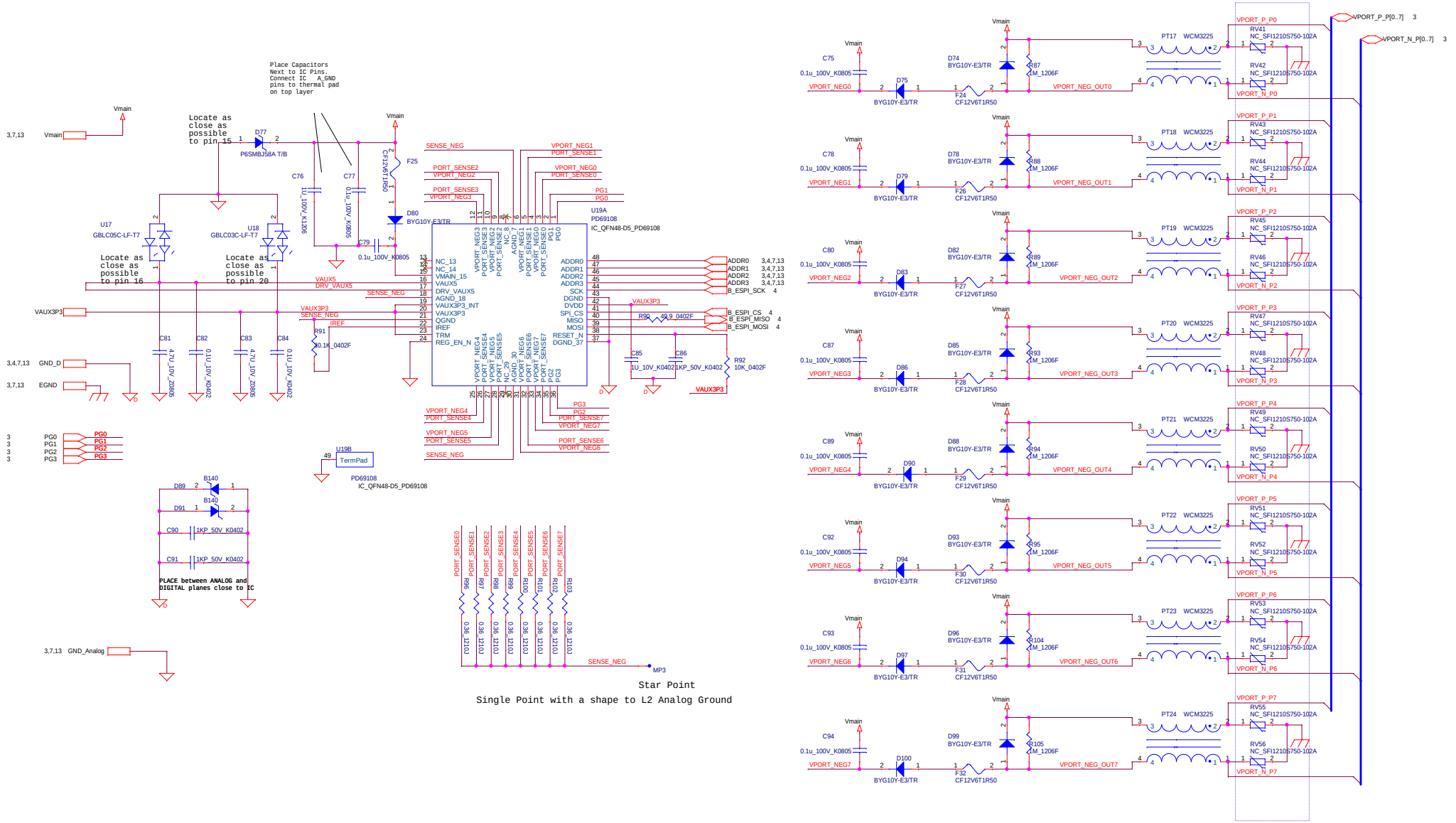
Agema Systems, INC.		
Title: PoE controller		
Size: C	Document Number: 1ADSS-0XXXXX	Rev: 03
Date: Thursday, January 28, 2016	Sheet 5 of 13	



Agema Systems, INC.	
Title	PoE Manager Slave
Size C	Document Number 1ADSS-0XXXXX
Rev	03
Date:	Thursday, January 28, 2016
Sheet	6 of 13

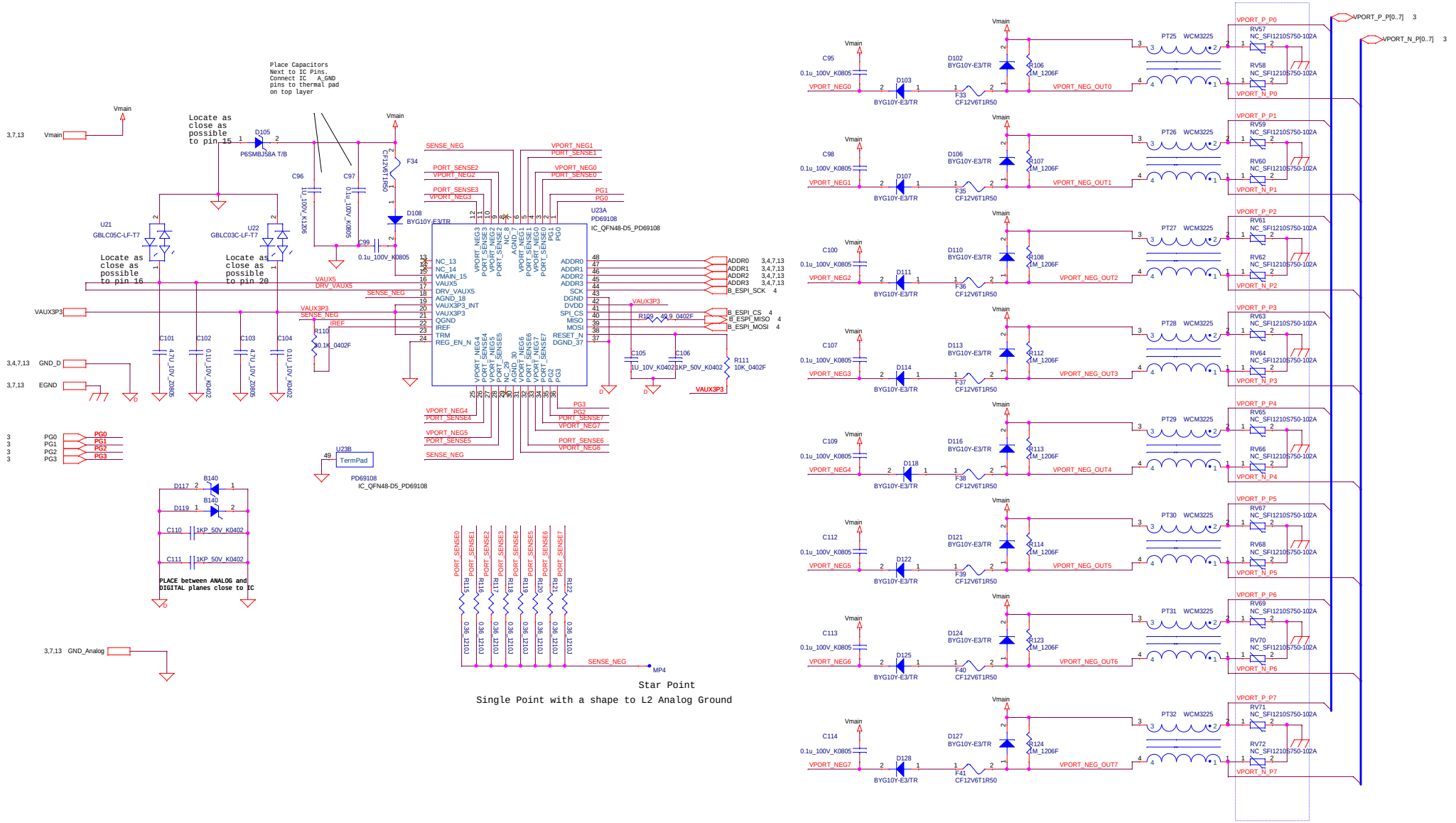


Title	Agema Systems, INC.
	PoE Manager Slave
Size C	Document Number 1ADSS-0XXXXX
Rev	03
Date: Thursday, January 28, 2016	Sheet 7 of 13



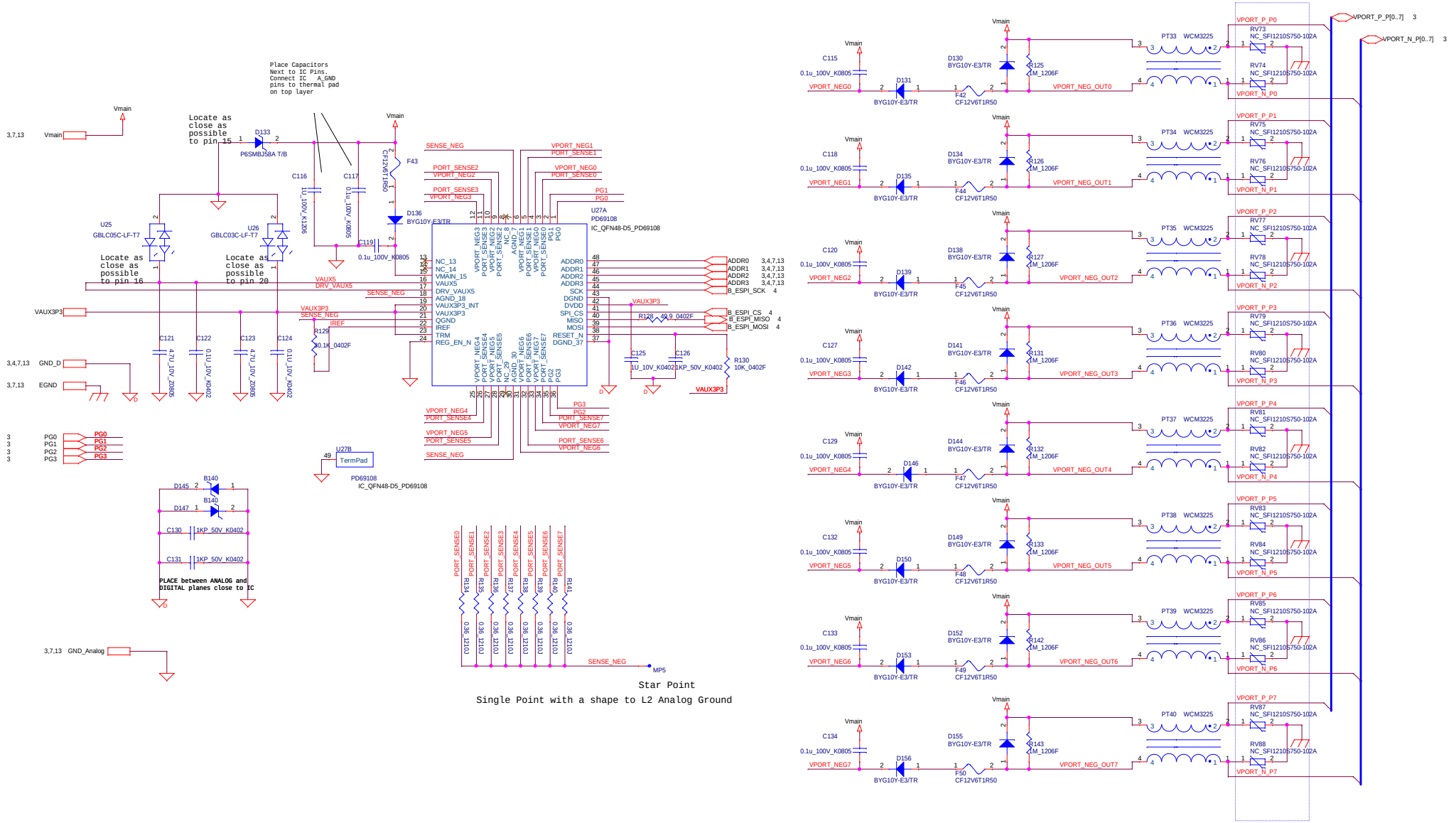
Note:
RV9~RV24 is populated for 6KV solution otherwise NC for 2KV solution

Agema Systems, INC.		
Title: PoE Manager Slave		
Size: C	Document Number: 1ADSS-0XXXXX	Rev: 03
Date: Thursday, January 28, 2016	Sheet 8 of 13	



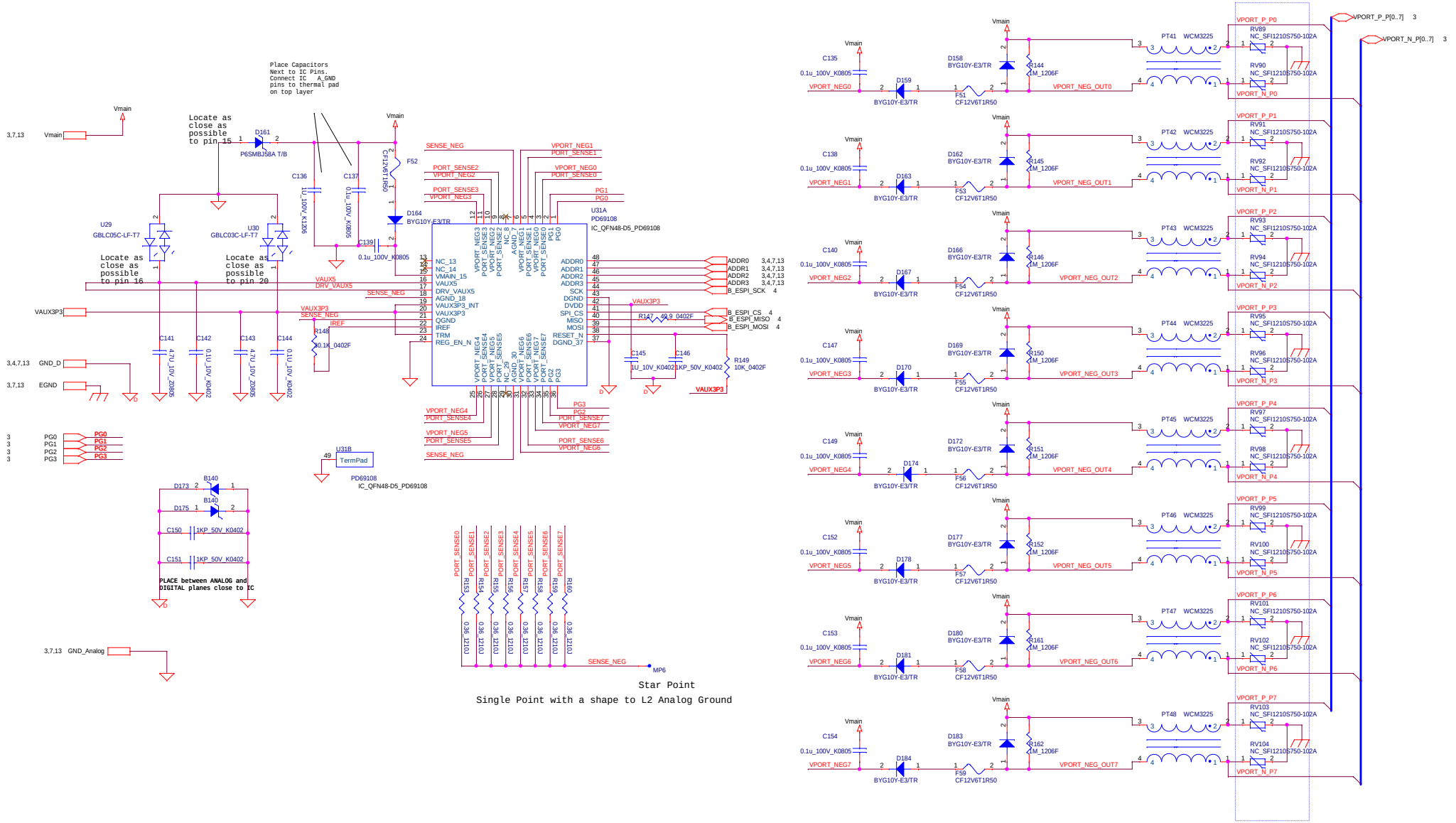
Note:
RV9~RV24 is populated for 6KV solution otherwise NC for 2KV solution

Agema Systems, INC.		
Title: PoE Manager Slave		
Size: C	Document Number: 1ADSS-0XXXXX	Rev: 03
Date: Thursday, January 28, 2016	Sheet 9 of 13	



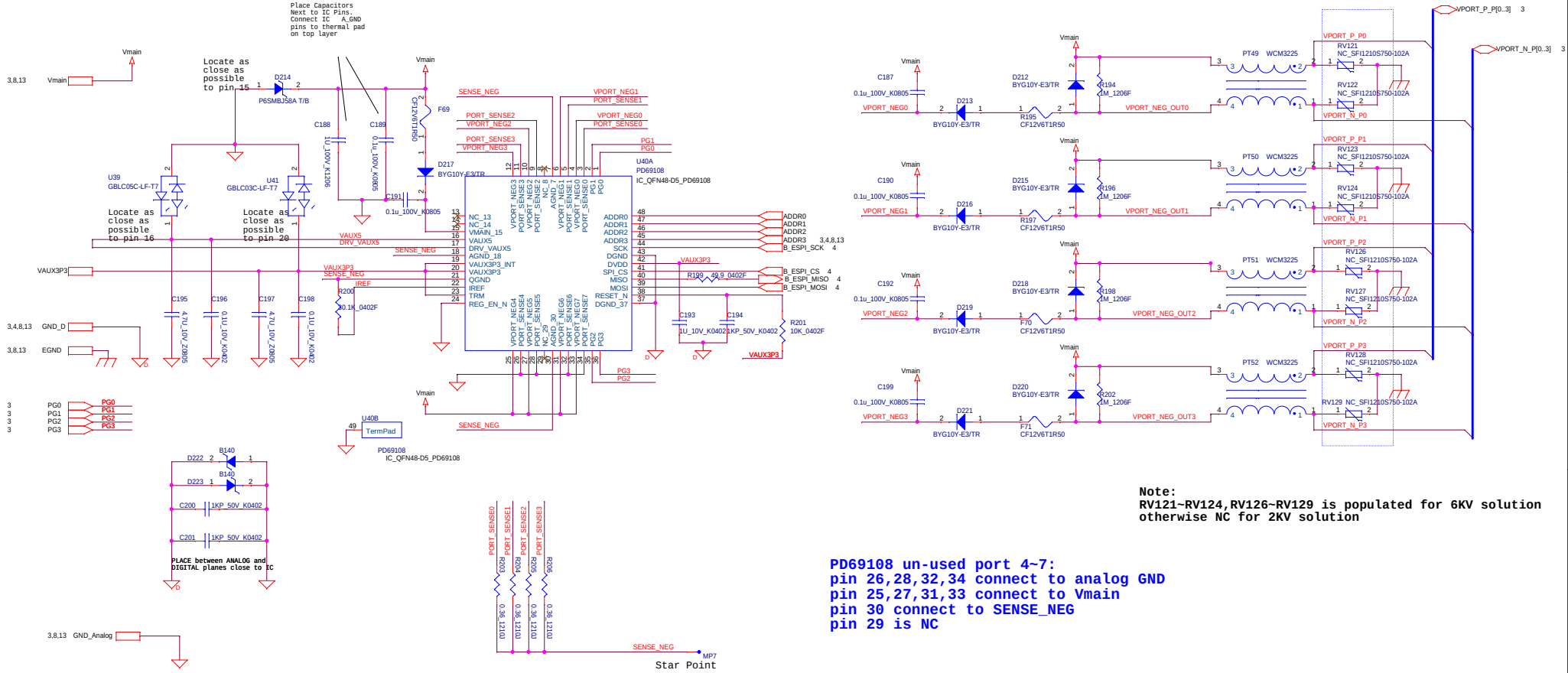
Note:
RV9~RV24 is populated for 6KV solution otherwise NC for 2KV solution

Agema Systems, INC.		
Title: PoE Manager Slave		
Size: C	Document Number: 1ADSS-0XXXXX	Rev: 03
Date: Thursday, January 28, 2016	Sheet 10 of 13	



Note:
RV9~RV24 is populated for 6KV solution otherwise NC for 2KV solution

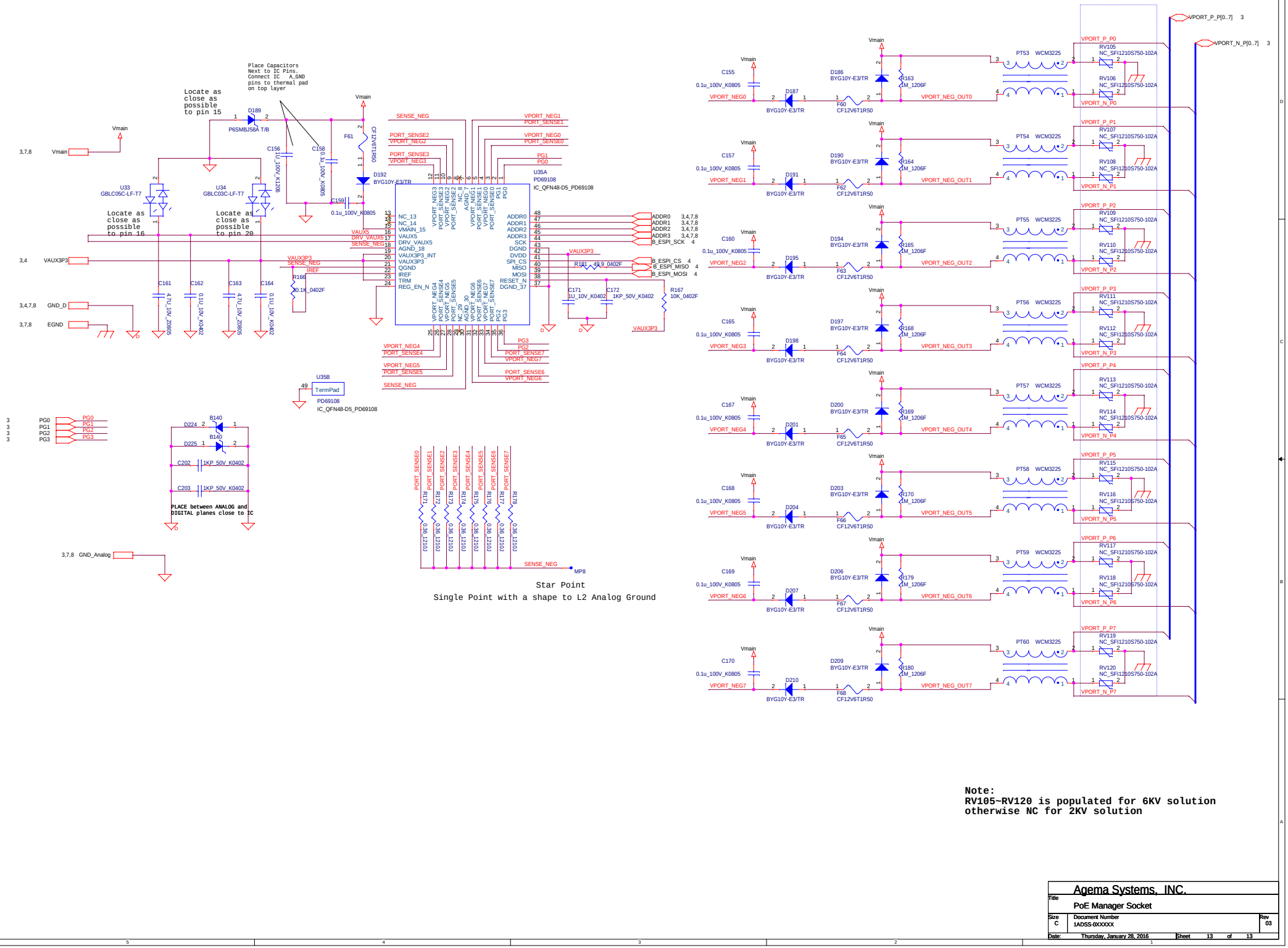
Agema Systems, INC.		
Title: PoE Manager Slave		
Size: C	Document Number: 1ADSS-0XXXXX	Rev: 03
Date: Thursday, January 28, 2016	Sheet 11 of 13	



Note:
RV121~RV124,RV126~RV129 is populated for 6KV solution otherwise NC for 2KV solution

PD69108 un-used port 4~7:
pin 26,28,32,34 connect to analog GND
pin 25,27,31,33 connect to Vmain
pin 30 connect to SENSE_NEG
pin 29 is NC

Agema Systems, INC.			
Title: PoE Manager Slave			
Size: C	Document Number: 1ADSS-0XXXXX		Rev: 03
Date: Thursday, January 28, 2016	Sheet 12 of 13		



Note:
RV105~RV120 is populated for 6KV solution otherwise NC for 2KV solution

Agema Systems, INC.		
Title: PoE Manager Socket		
Size: C	Document Number: 1ADSS-0XXXXX	Rev: 03
Date: Thursday, January 28, 2016	Sheet 13 of 13	