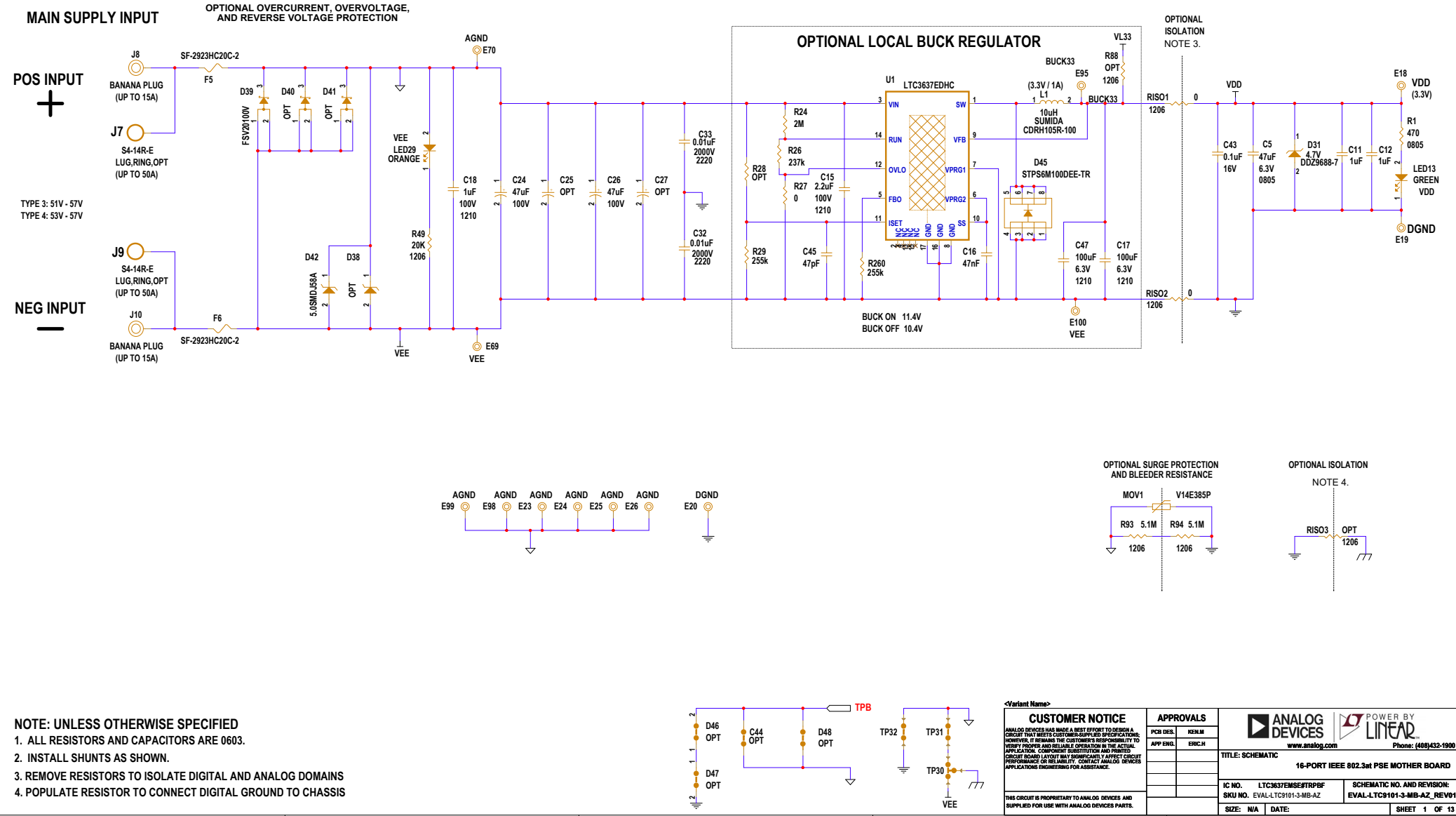
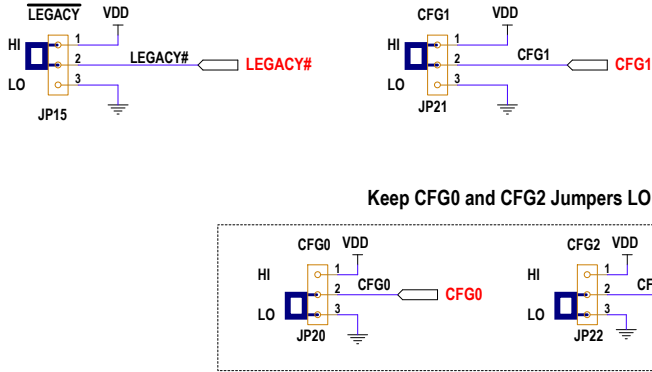




POWER SUPPLY

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	1			



REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	1			

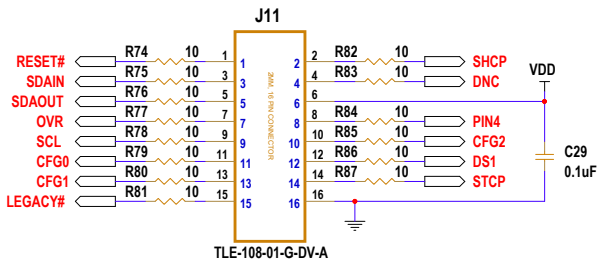


<h1>CUSTOMER NOTICE</h1> <p>ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION, CHANGES TO THE CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.</p>		<h2>APPROVALS</h2> <table border="1"> <tr> <td>PCB DES.</td> <td>KEMM</td> </tr> <tr> <td>APP ENG.</td> <td>ERIC.H</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		PCB DES.	KEMM	APP ENG.	ERIC.H																			 ANALOG DEVICES www.analog.com		 POWER BY LINEAR™ Phone: (408) 432-1900	
PCB DES.	KEMM																												
APP ENG.	ERIC.H																												
TITLE: SCHEMATIC				16-PORT IEEE 802.3at PSE MASTER BOARD																									
THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES. THIS SCHEMATIC IS FOR USE WITH ANALOG DEVICES PARTS.		IC NO. LTC3637EMSE#TRPBF SKU NO. EVAL-LTC9101-3-MB-AZ		SCHEMATIC NO. AND REVISION: EVAL-LTC9101-3-MB-AZ_REV01																									
SIZE: N/A		DATE:		SHEET 2 OF 13																									

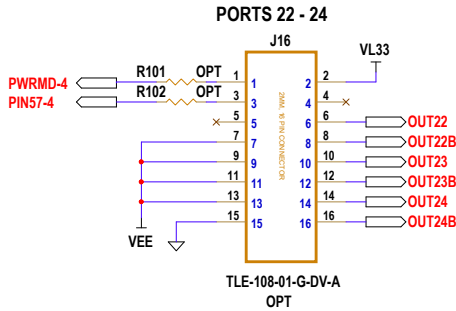
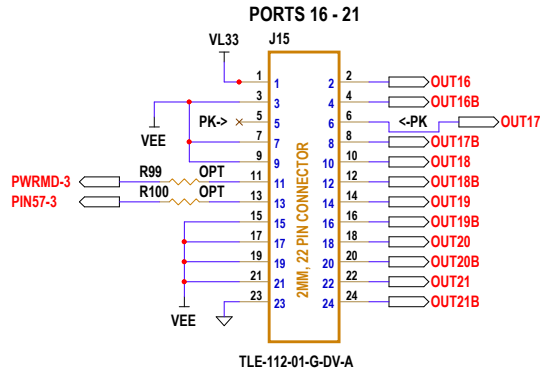
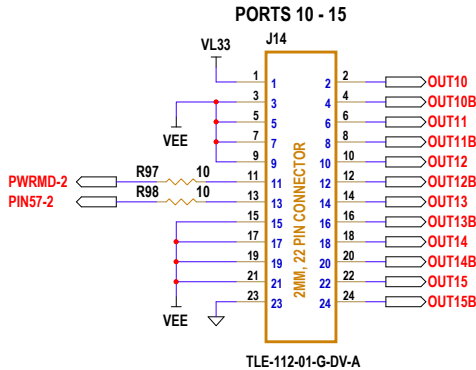
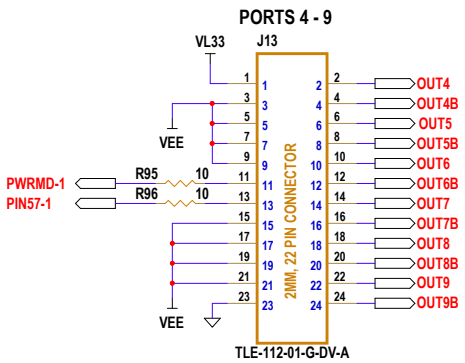
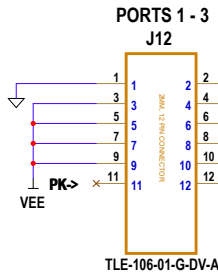
DAUGHTER CARD CONNECTIONS

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	1			



DIGITAL CONNECTIONS



ANALOG CONNECTIONS

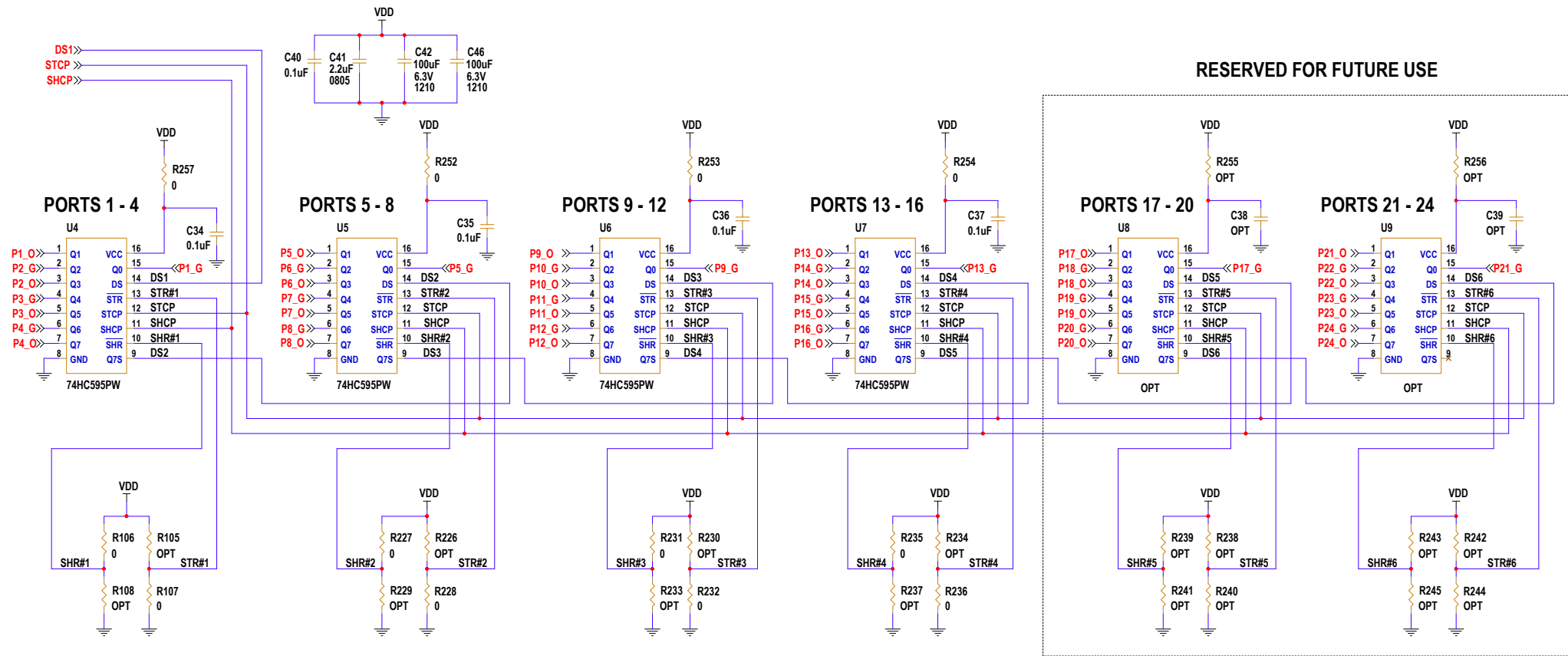


NOTE: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS AND CAPACITORS ARE 0603.
2. INSTALL SHUNTS AS SHOWN.

<div>CUSTOMER NOTICE</div> <div>ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS. IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.</div> <div>THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.</div>	<div>APPROVALS</div> <table><tr><td>PCB DES.</td><td>KELM</td></tr><tr><td>APP ENG.</td><td>ERIC.H</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>		PCB DES.	KELM	APP ENG.	ERIC.H																	<div>ANALOG DEVICES</div> <div>www.analog.com</div>	<div>POWER BY LINEAR</div> <div>Phone: (408)432-1900</div>
	PCB DES.	KELM																						
	APP ENG.	ERIC.H																						
TITLE: SCHEMATIC																								
16-PORT IEEE 802.3at PSE MOTHER BOARD																								
IC NO. LTC3637EMSE#TRPBF																								
SKU NO. EVAL-LTC9101-3-MB-AZ																								
SCHEMATIC NO. AND REVISION: EVAL-LTC9101-3-MB-AZ_REV01																								
SIZE: N/A																								
DATE:																								
SHEET 3 OF 11																								

LED SHIFT REGISTERS

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	1			



NOTE: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS AND CAPACITORS ARE 0603.
2. INSTALL SHUNTS AS SHOWN.

<Core Design>

CUSTOMER NOTICE

ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.

APPROVALS

PCB DES.	KENLM
APP ENG.	ERIC.H



www.analog.com

Phone: (408)432-1900

TITLE: SCHEMATIC

16-PORT IEEE 802.3at PSE MOTHER BOARD

IC NO. LTC3637EMSE#TRPBF

SKU NO. EVAL-LTC9101-3-MB-AZ

SIZE: N/A

DATE:

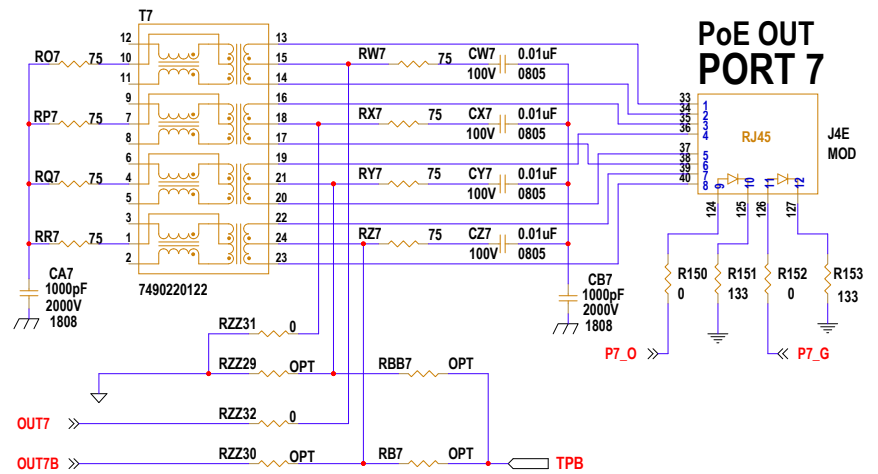
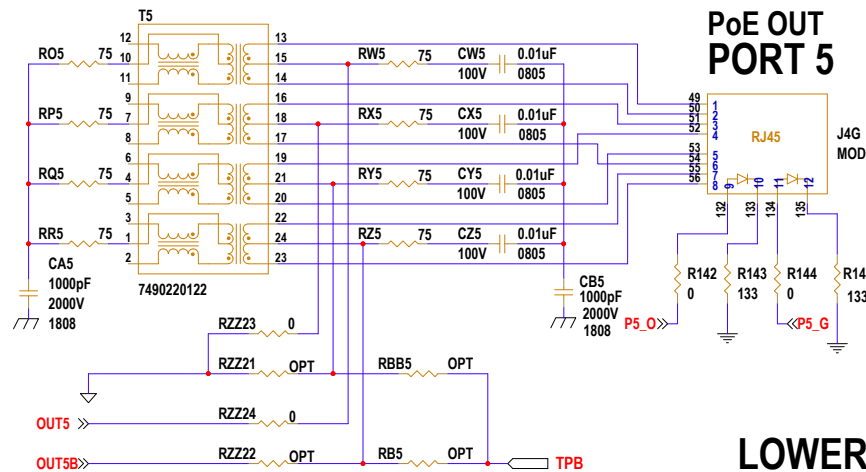
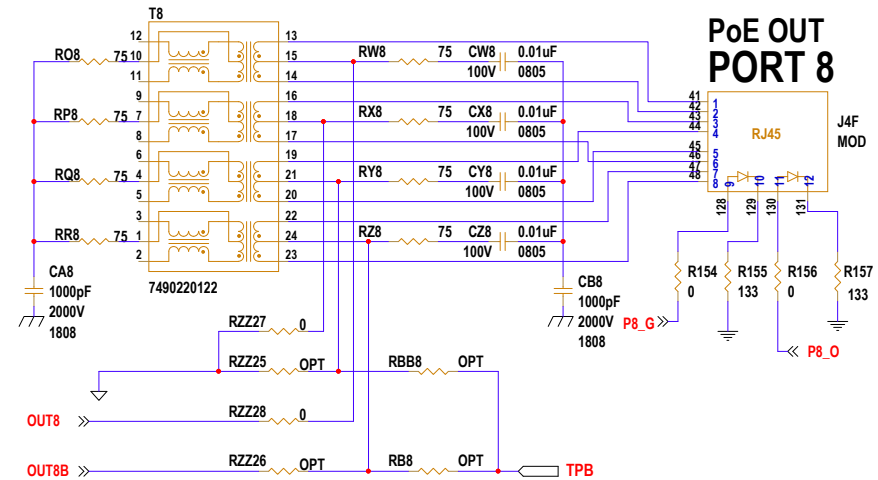
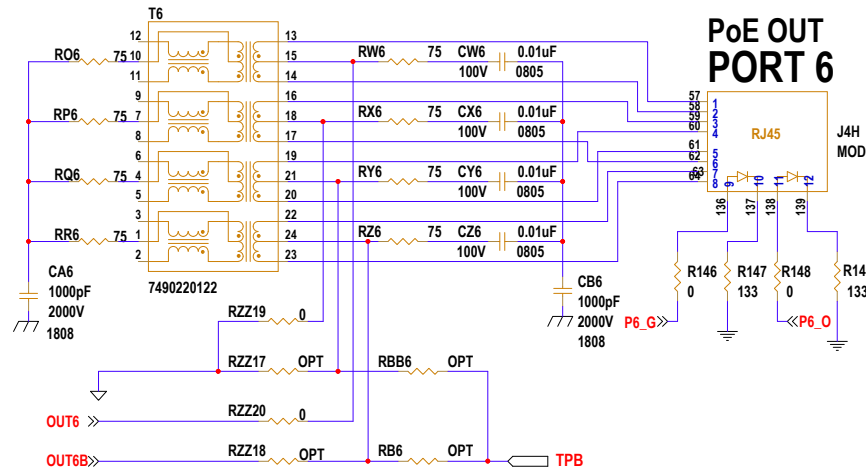
SCHEMATIC NO. AND REVISION:

EVAL-LTC9101-3-MB-AZ_REV01

SHEET 4 OF 13

UPPER ROW



REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	1			

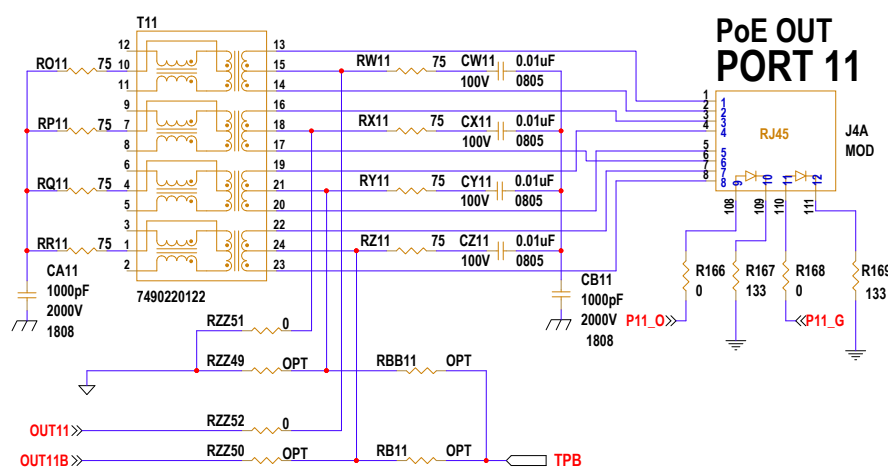
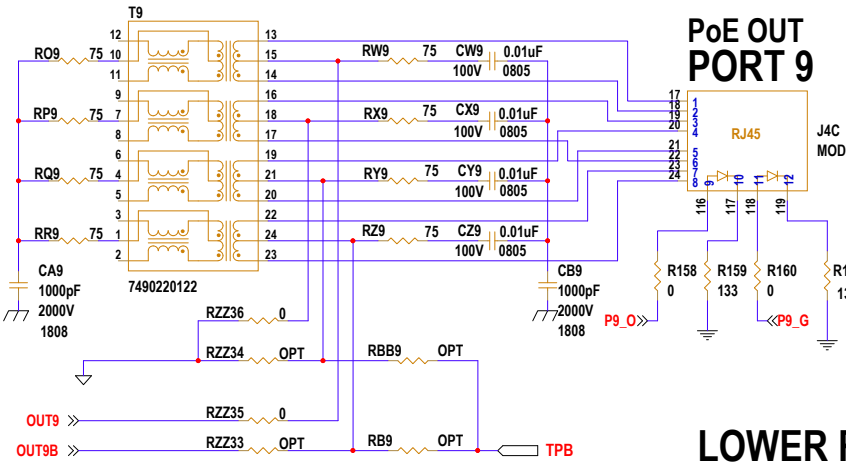
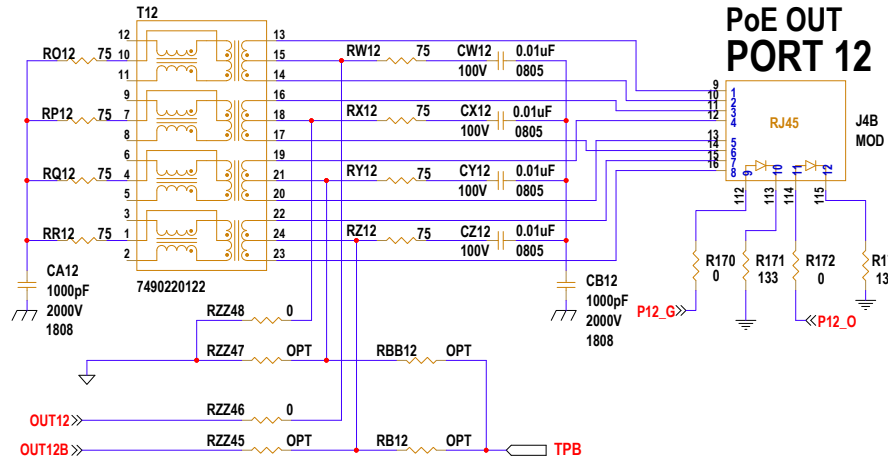


LOWER ROW



NOTE: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS AND CAPACITORS ARE 0603.
2. INSTALL SHUNTS AS SHOWN.

CUSTOMER NOTICE		APPROVALS		 ANALOG DEVICES www.analog.com	 POWER BY LINEAR Phone: (408)432-1900
ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.		PCB DES.	KENM		
		APP. ENG.	ERIC.H		
THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.		TITLE: SCHEMATIC		16-PORT IEEE 802.3at PSE MOTHER BOARD	
		IC NO. LTC3637EMSE#TRPBF		SCHEMATIC NO. AND REVISION:	
		SKU NO. EVAL-LTC9101-3-MB-AZ		EVAL-LTC9101-3-MB-AZ_REV01	
		SIZE: N/A		DATE:	
				SHEET 6 OF 13	

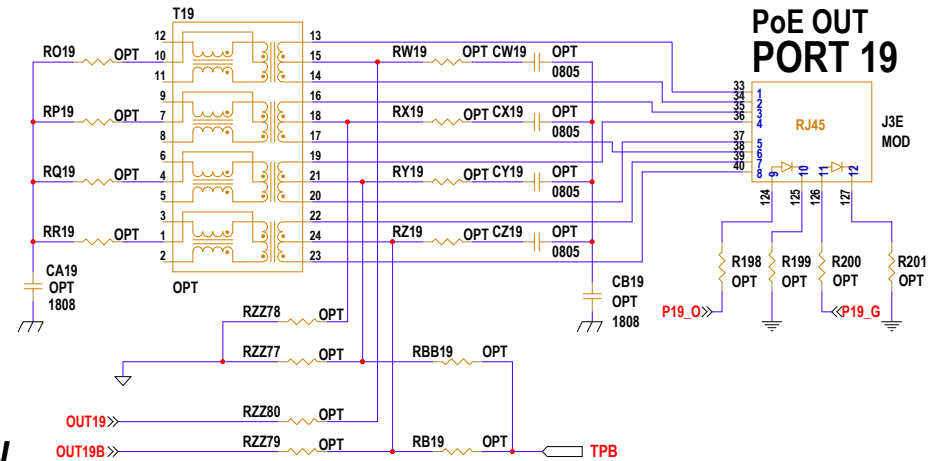
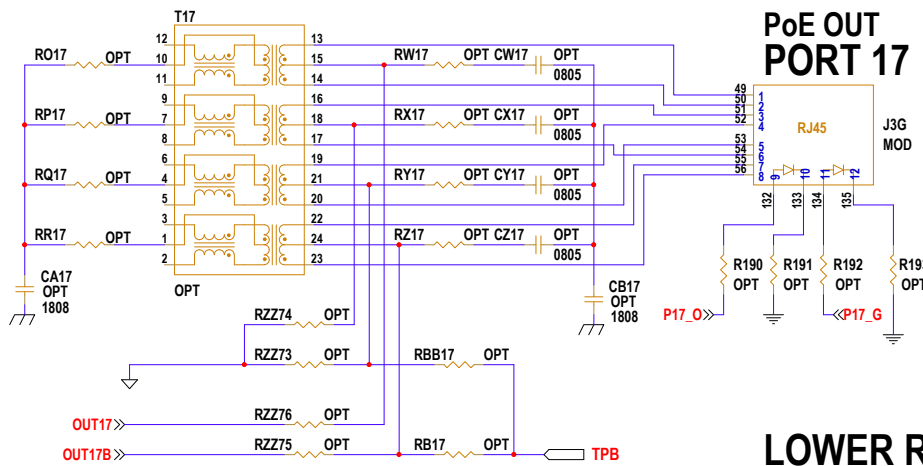
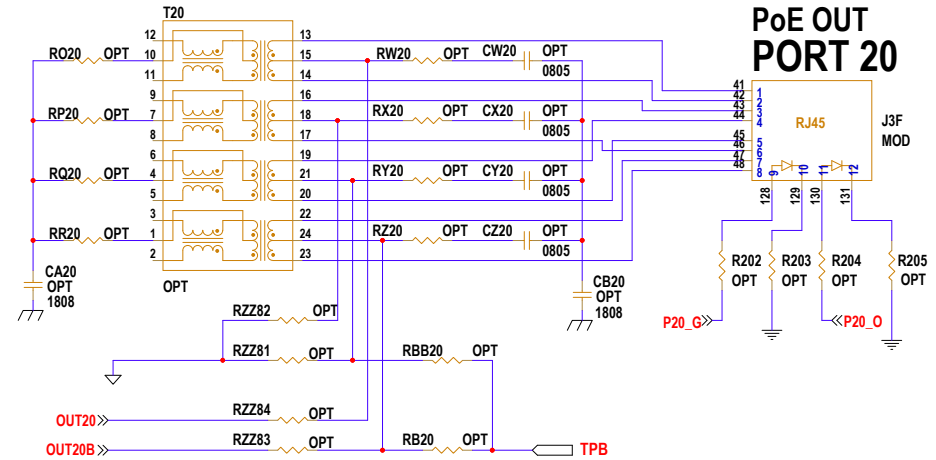
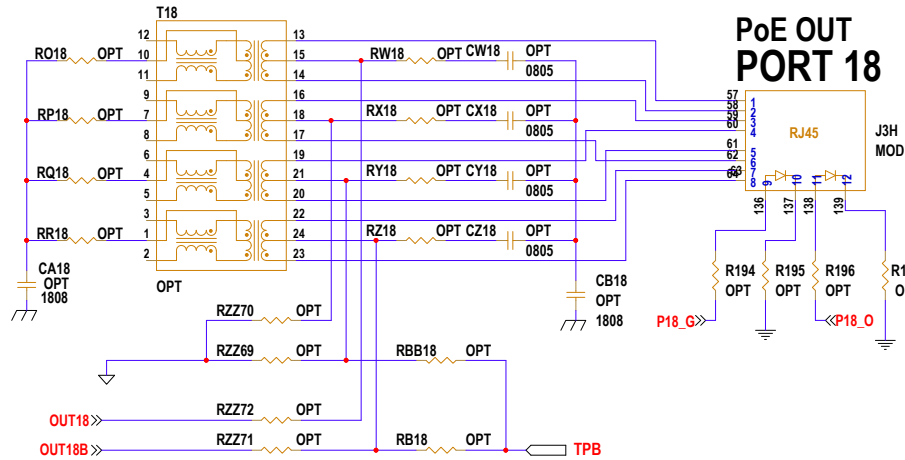


LOWER ROW

<h1>CUSTOMER NOTICE</h1> <p>ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO TEST AND VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION, BOARD LAYOUT, OR CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.</p>		<h2>APPROVALS</h2> <table border="1"> <tr> <td>PCB DES.</td> <td>KELIM</td> </tr> <tr> <td>APP ENG.</td> <td>ERIC.H</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		PCB DES.	KELIM	APP ENG.	ERIC.H											<div>  ANALOG DEVICES www.analog.com </div> <div>  POWER BY LINEAR Phone: (408)432-1900 </div>	
PCB DES.	KELIM																		
APP ENG.	ERIC.H																		
<p>TITLE: SCHEMATIC</p> <p>16-PORT IEEE 802.3at PSE MOTHER BOARD</p>				<p>IC NO. LTC3637EMSE#TRPBF</p> <p>SKU NO. EVAL-LTC9101-3-MB-AZ</p>		<p>SCHEMATIC NO. AND REVISION: EVAL-LTC9101-3-MB-AZ_REV01</p>													
<p>THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.</p>				<p>SIZE: N/A DATE:</p>		<p>SHEET 7 OF 11</p>													

UPPER ROW



REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	1			



LOWER ROW

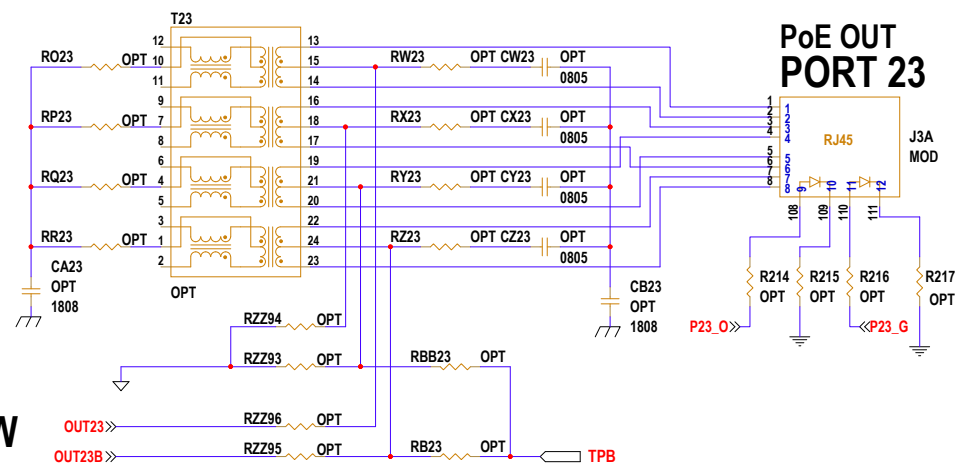
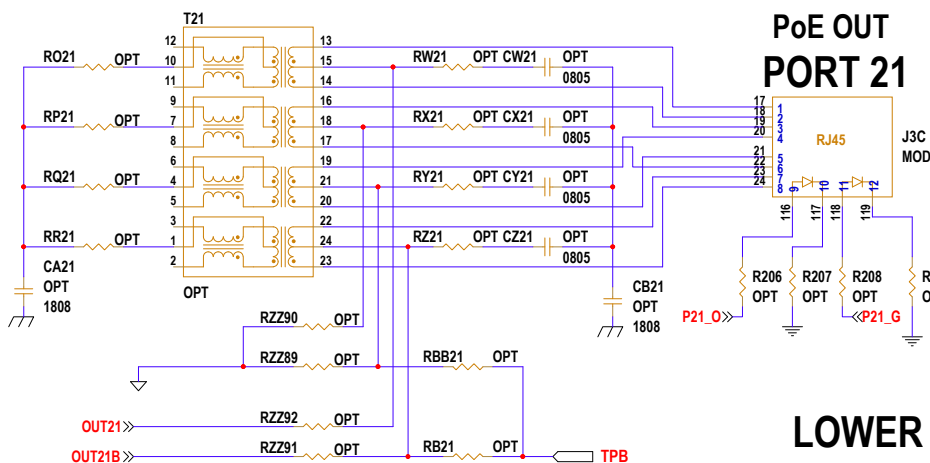
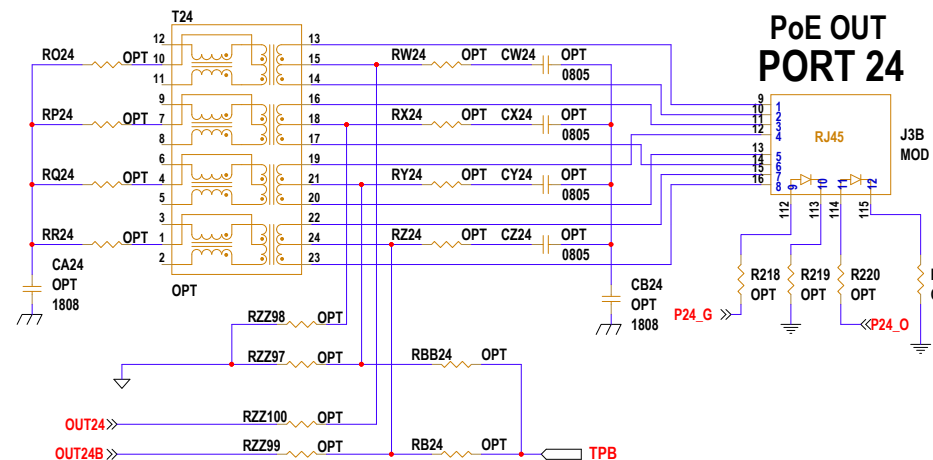
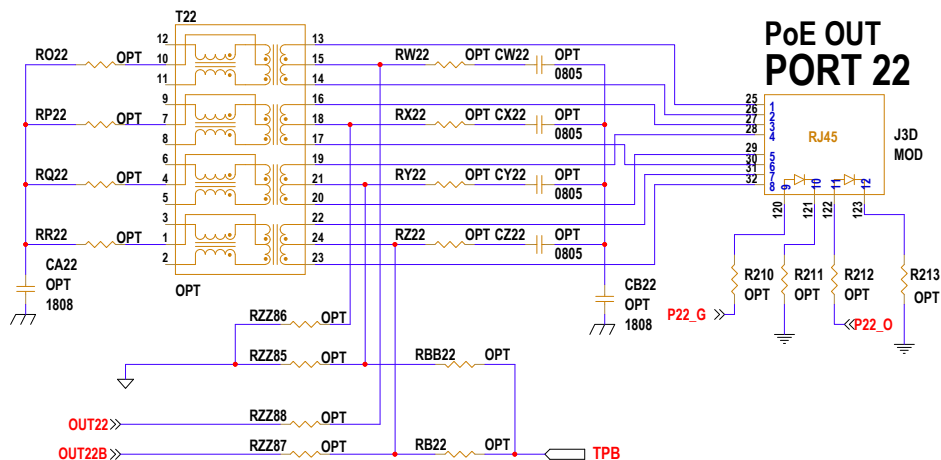
NOTE: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS AND CAPACITORS ARE 0603.
2. INSTALL SHUNTS AS SHOWN.

CUSTOMER NOTICE		APPROVALS		 ANALOG DEVICES www.analog.com	 POWER BY LINEAR Phone: (408) 432-1900
ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS. HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.		PCB DES.	KENM		
		APP. ENG.	ERIC.H		
TITLE: SCHEMATIC				16-PORT IEEE 802.3at PSE MOTHER BOARD	
IC NO. LTC3637EMSE#TRPBF				SCHEMATIC NO. AND REVISION:	
SKU NO. EVAL-LTC9101-3-MB-AZ				EVAL-LTC9101-3-MB-AZ_REV01	
SIZE: N/A				DATE:	
SHEET 9 OF 13					

UPPER ROW

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	1			



LOWER ROW

NOTE: UNLESS OTHERWISE SPECIFIED

- ALL RESISTORS AND CAPACITORS ARE 0603.
- INSTALL SHUNTS AS SHOWN.

<Core Design>

CUSTOMER NOTICE

ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.

APPROVALS

PCB DES. KENM

APP ENG. ERIC.H

ANALOG DEVICES
www.analog.com

POWER BY LINEAR
Phone: (408)432-1900

TITLE: SCHEMATIC

16-PORT IEEE 802.3at PSE MOTHER BOARD

IC NO. LTC3637EMSE#TRPBF
SKU NO. EVAL-1.TC9101-3-MB-AZ

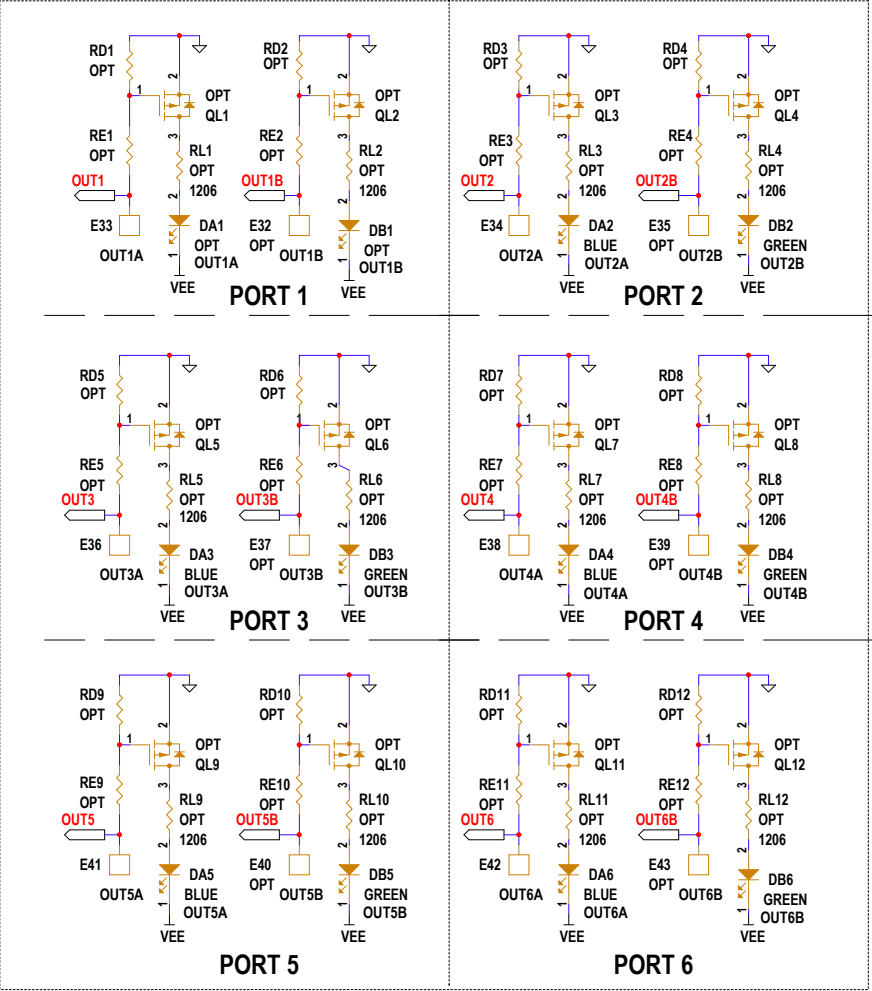
SCHEMATIC NO. AND REVISION:
EVAL-1.TC9101-3-MB-AZ_REV01

SIZE: N/A DATE:

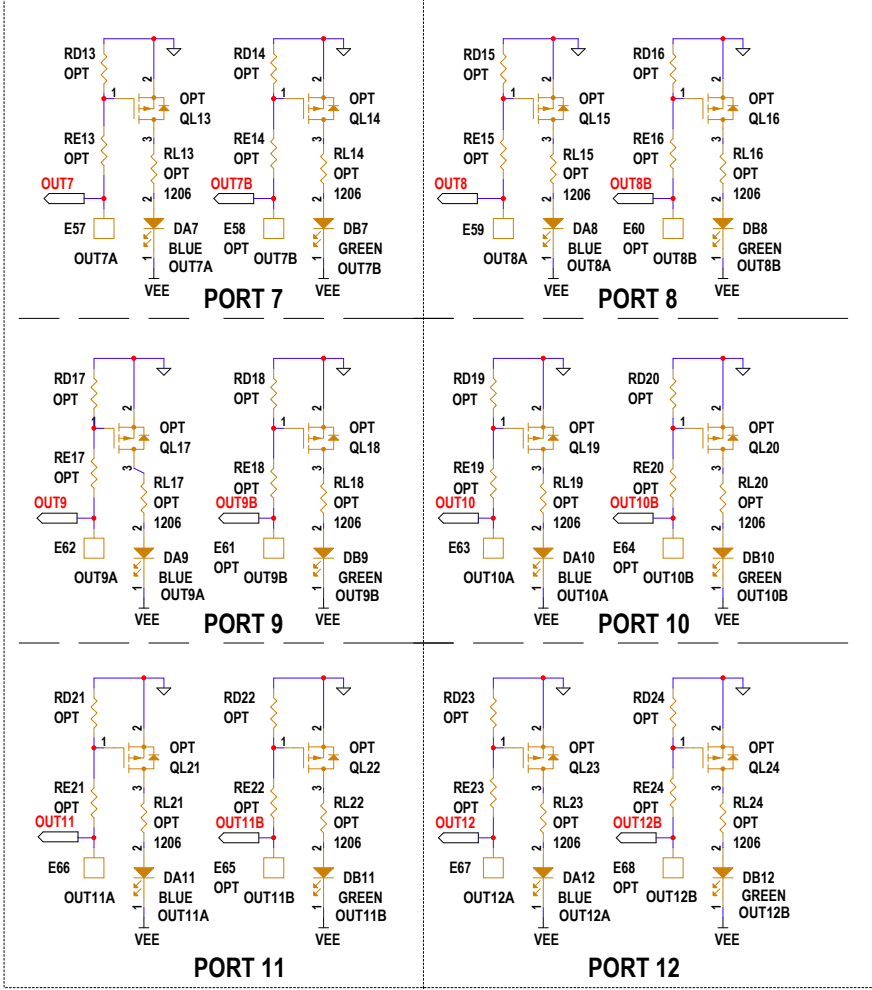
SHEET 10 OF 13

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	1			

OPTIONAL PORT LED DRIVERS - PORTS 1 TO 6



OPTIONAL PORT LED DRIVERS - PORTS 7 - 12



NOTE: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS AND CAPACITORS ARE 0603.
2. INSTALL SHUNTS AS SHOWN.



<Core Design>

CUSTOMER NOTICE

ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.

APPROVALS	
PCB DES.	KENM
APP ENG.	ERIC.H

ANALOG DEVICES  **POWER BY LINEAR** 

www.analog.com Phone: (408)432-1900

TITLE: SCHEMATIC

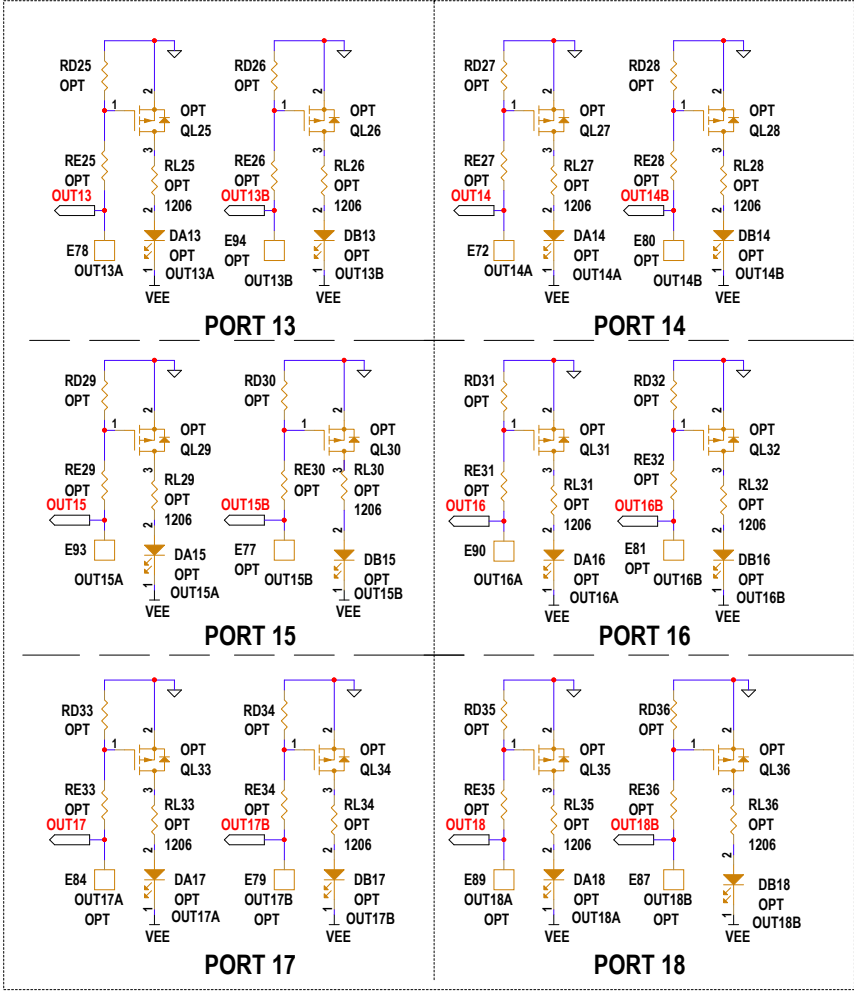
16-PORT IEEE 802.3at PSE MOTHER BOARD

IC NO.	LTC3637EMSE#TRPBF	SCHMATIC NO. AND REVISION:
SKU NO.	EVAL-LTC9101-3-MB-AZ	EVAL-LTC9101-3-MB-AZ_REV01
SIZE:	N/A	DATE:

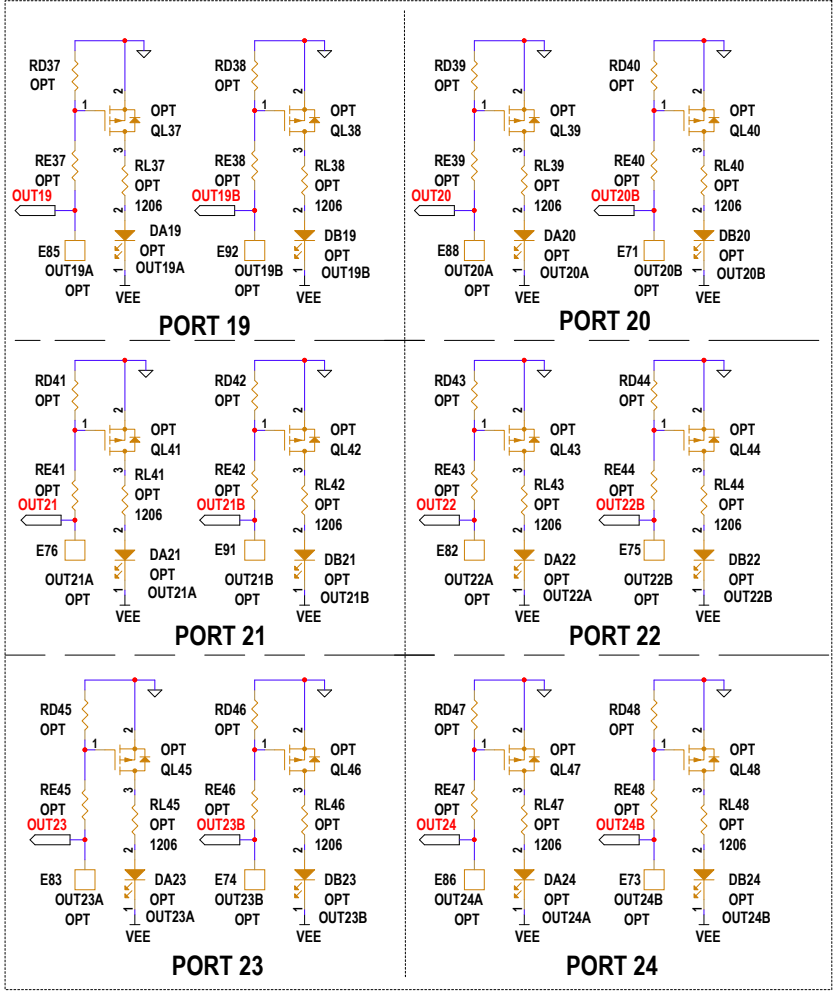
SHEET 11 OF 13

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	1			

OPTIONAL PORT LED DRIVERS - PORTS 13 -18



OPTIONAL PORT LED DRIVERS AND TEST POINTS - PORTS 19 -24

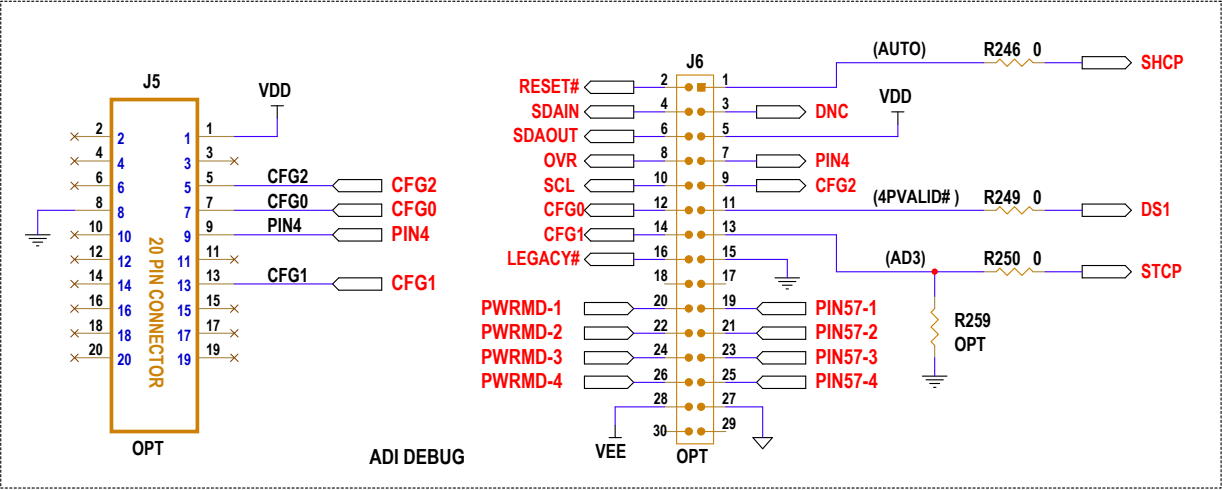


NOTE: UNLESS OTHERWISE SPECIFIED

- 1. ALL RESISTORS AND CAPACITORS ARE 0603.
- 2. INSTALL SHUNTS AS SHOWN.

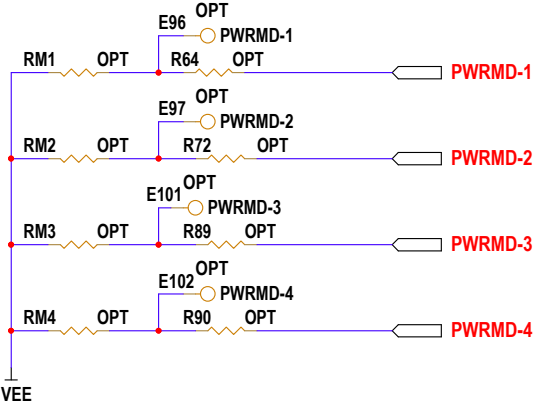
<Core Design>			APPROVALS		ANALOG DEVICES		POWER BY LINEAR	
CUSTOMER NOTICE			PCB DES.	KENM	www.analog.com		Phone: (408)432-1900	
ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS. HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.			APP ENG.	ERIC.H	TITLE: SCHEMATIC		16-PORT IEEE 802.3at PSE MOTHER BOARD	
					IC NO. LTC3637EMSE#TRPBF		SCHEMATIC NO. AND REVISION:	
					SKU NO. EVAL-LTC9101-3-MB-AZ		EVAL-LTC9101-3-MB-AZ_REV01	
					SIZE: N/A		DATE:	
THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.							SHEET 12 OF 13	

HARDWARE AND OPTIONAL COMPONENTS



PCA ADDITIONAL PARTS

MP1	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP2	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP3	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP4	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP5	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP6	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP7	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP8	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP9	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
LB1	BOARD S/N LABEL 895-0154
PCB1	PCB, DC3017A REV03 (MAO BANG)



NOTE: UNLESS OTHERWISE SPECIFIED
1. INSTALL SHUNTS AS SHOWN.

CUSTOMER NOTICE ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.	APPROVALS		 www.analog.com Phone: (408)432-1900
	PCB DES.	KEN.M	
	APP ENG.	ERIC.H	
THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.			TITLE: SCHEMATIC 16-PORT IEEE 802.3at PSE MOTHER BOARD
	IC NO.	LTC3637EMSE#TRPBF	SCHEMATIC NO. AND REVISION:
	SKU NO.	EVAL-LTC9101-3-MB-AZ	EVAL-LTC9101-3-MB-AZ_REV01
	SIZE:	N/A	DATE:
			SHEET 13 OF 13