Evaluation Board User Guide

EVAL-LT7176P-AZ

Evaluates: 2xLT7176P 4V, 48A PolyPhase Silent Switcher Step-Down Regulator with Digital Power System Management

General Description

The EVAL-LT7176P-AZ evaluation kit is a dual-phase, single-output monolithic DC-DC synchronous step-down regulator with a 2.7V to 4V input range featuring the LT7176P. With 3V to 12V $EXTV_{CC}$ provided, the input voltage can be as low as 1.5V. The output can supply 48A continuous load current. The Silent Switcher® regulator structure is incorporated into the LT7176P to minimize EMI and reduce PCB layout sensitivity. It also integrates digital power system management functionality, allowing for programmability and telemetry with a PMBus/I^2C-compliant serial interface. Refer to the LT7176P data sheet for more information.

The EVAL-LT7176P-AZ evaluation board is designed for 0.5V output with a switching frequency set at 1.5MHz. The controlled on-time valley current-mode control with 25ns typical minimum on-time enables a high switching frequency at a low output voltage with excellent transient response in a small overall solution size.

The EVAL-LT7176P-AZ powers up to default settings and produces power based on the NVM configuration without the need for any serial bus communication. This allows easy evaluation of the DC-DC converter. To fully explore the power system management features of the part, download the GUI software LTpowerPlay® onto the PC and use the Analog Devices I^2C/SMBus/PMBus dongle DC1613A to connect to the board. LTpowerPlay allows the user to reconfigure the part on the fly, store the configuration in NVM, and view telemetry of voltage, current, temperature, and fault status. The NVM can be programmed up to three times.

GUI Download

The software can be downloaded from LTpowerPlay.

The LT7176P data sheet describes the part, operation, and application information. Read the data sheet in conjunction with this EVAL-LT7176P-AZ demo manual.

For more details and instructions for the LTpowerPlay GUI, see the LTpowerPlay Quick Start Procedure section.

Performance Summary (Specifications are at T_A = 25°C)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Input Voltage Range	V_{IN}		2.7		4	V
Default Output Voltage	V_{OUT}			0.5		V
Maximum Continuous Output Current	I_{OUT}			48		A
Switching Frequency	f_{SW}		1.35	1.5	1.65	MHz
Efficiency	Eff	V_{IN} = 3.3V, I_{OUT} = 40A		80		%

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Quick Start Procedure

The EVAL-LT7176P-AZ is easy to set up to evaluate the performance of the LT7176P. See *Figure 1* for proper measurement equipment setup and use the following procedure:

1. Set an input power supply that is capable of 4V/7A and then turn off the power.
2. With the power off, connect the supply to the input terminals V_{IN} and GND. Set the default jumper position to SW1: ON.
3. Turn on the power at the input.

   Note: Make sure that the input voltage never exceeds 4V.
4. Check for the proper output voltages of 0.5V ±0.4% (0.498V~0.502V). Turn off the power at the input.
5. Once the proper output voltage is established, connect variable loads capable of sinking 48A at 0.5V to the output terminals V_{OUT} and GND. Set the current to 0A.
6. If efficiency measurements are desired, ammeters can be put in series with the power supply to measure the EVAL-LT7176P-AZ's input current and in series with the output load to measure the output current or by directly reading the output current from the electronic load.
   a) Voltmeters can be placed across the output terminals (VSENSE+, VSENSE-) to get accurate output voltage measurements.
   b) Voltmeters can be placed across the input terminals (VIN_SENSE, GND) to get accurate input voltage measurements.
   c) To achieve the best efficiency, remove resistors R27 and R28, then populate the 0Ω resistors for R58 and R59 on the bottom layer of the board.
   d) To achieve the best output accuracy, remove resistors R58 and R59, then populate the 0Ω resistors for R27 and R28 on the bottom layer of the board.
7. Turn on the power at the input.

   Note: If there is no output, temporarily disconnect the load to make sure that the load is not set too high.
8. Once the proper output voltages are established again, adjust the load and/or input within the operating range, and observe the output voltage regulation, ripple voltage, efficiency, and other desired parameters.
9. When measuring the output or input voltage ripple, do not use the long ground lead on the oscilloscope probe. See *Figure 2* for the proper scope probe setup. Short, stiff leads must be soldered to the (+) and (-) terminals of an output capacitor. The probe's ground ring needs to touch the (-) lead, and the probe tip needs to touch the (+) lead.

   In addition, the output voltage ripple can be also measured at the J6 V_{OUT} test point. J6 is designed for a 50Ω coaxial U.FL cable to minimize high-frequency noise that could otherwise couple into the oscilloscope probes. See *Figure 3* for the proper coaxial cable setup.
10. Connect the dongle and control the output voltages from the GUI. See the *LTpowerPlay Quick Start Procedure* section for details.
11. The EVAL-LT7176P-AZ includes an onboard load-transient circuit. To test the load-transient response, apply a pulsed signal from a signal generator between the IOSTEPCLK and GND turrets on the board. Measure the voltage across the sensing resistor R49 at the IOSTEP test point to observe the current (VIOSTEP/10mΩ). Adjust the pulse amplitude to achieve the desired transient, and modify the rising and falling edges of the pulse to set the required ramp rate. For more details, see the load-transient circuit in the *EVAL-LT7176P-AZ Schematic Diagrams*.
12. The EVAL-LT7176P-AZ is compatible with the LTpowerAnalyzer and can be connected to the LTpowerAnalyzer board at the P1 Molex socket with a 16-pin ribbon cable. The LTpowerAnalyzer features loop response, transient response, and output impedance measurements. For LTpowerAnalyzer details and instructions, refer to *LTpowerAnalyzer* on the Analog Devices website to access the user guide, software, and evaluation kit. Attach the load slammer through the on-board socket P2 for easy loop response and load-transient test setup.

    Note: To test the loop response of the EVAL-LT7176P-AZ, remove resistors R27, R58, and R59, then populate a 0Ω resistor at R28 and a 20Ω resistor at R47 on the bottom layer of the board.

Connecting a PC to EVAL-LT7176P-AZ

Use a PC to reconfigure the power management features of the LT7176P, such as V_{OUT}, current limit, switching frequency, OV/UV limits, control loop compensation, temperature fault limits, sequencing parameters, fault responses, and other functions. The DC1613A dongle can be plugged in when a V_{IN} is present. *Figure 4* shows a demo setup of connecting a PC to the EVAL-LT7176P-AZ board.

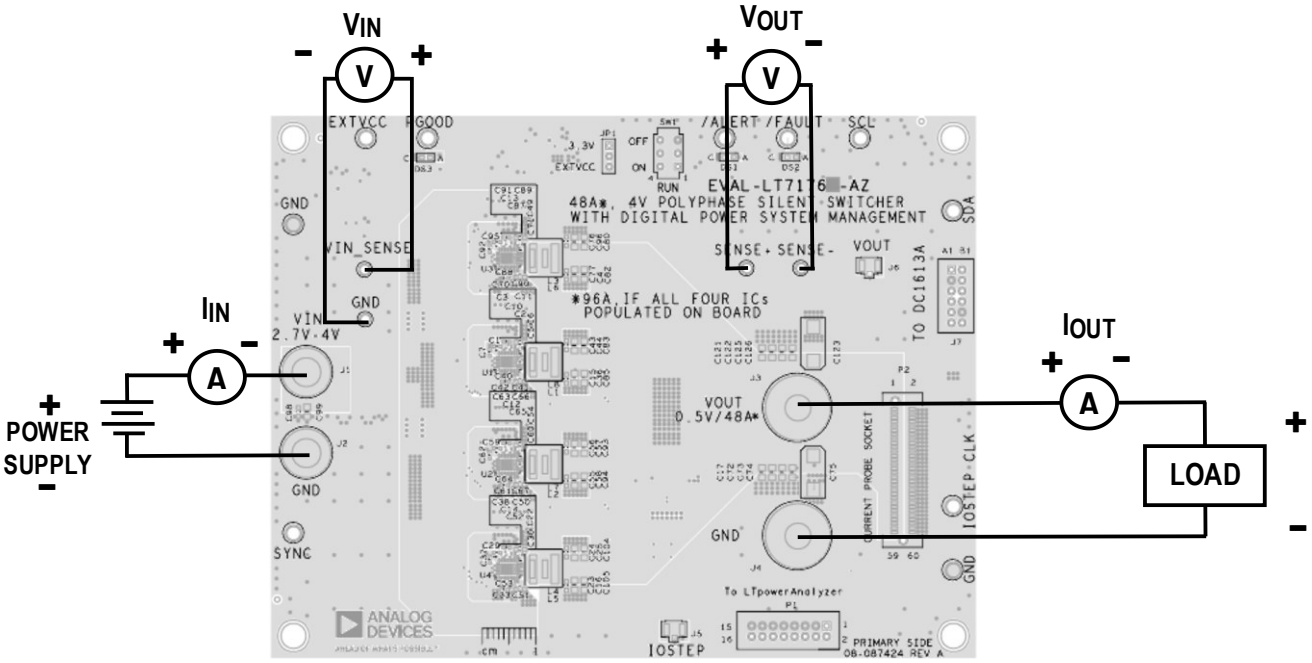


Figure 1. Proper Measurement Equipment Setup

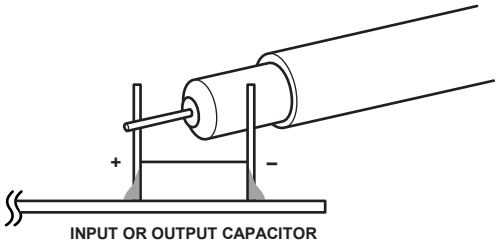


Figure 2. Scope Probe Placement for Measuring Input or Output Voltage Ripple

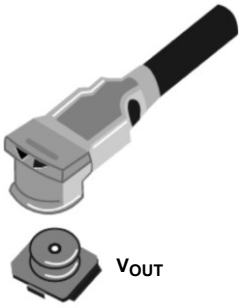


Figure 3. Coaxial Cable Placement for Measuring Output Voltage Ripple

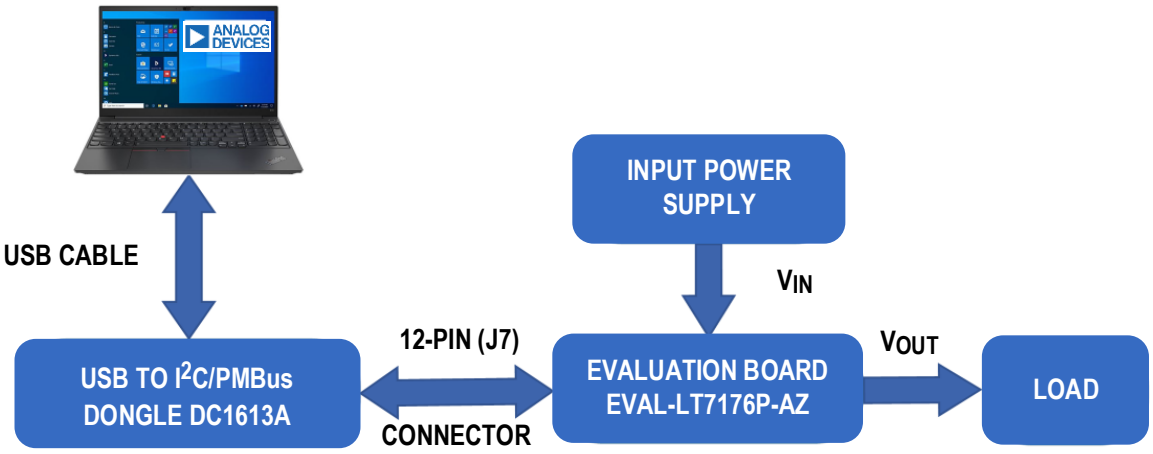


Figure 4. Demo Setup with PC

Typical Performance Characteristics

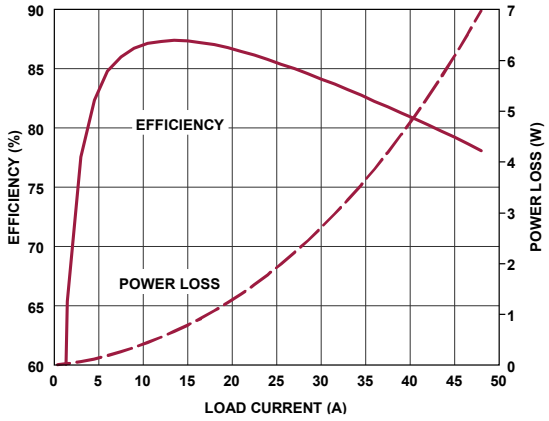


Figure 5. Efficiency vs. Load Current at 1.5MHz Switching Frequency

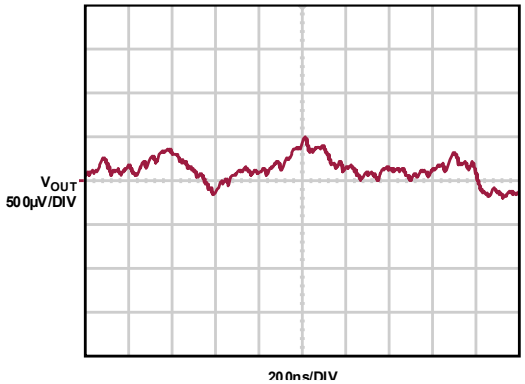


Figure 6. Output Voltage Ripple at V_{IN} = 3.3V, V_{OUT} = 0.5V, f_{SW} = 1.5MHz, I_{LOAD} = 0A

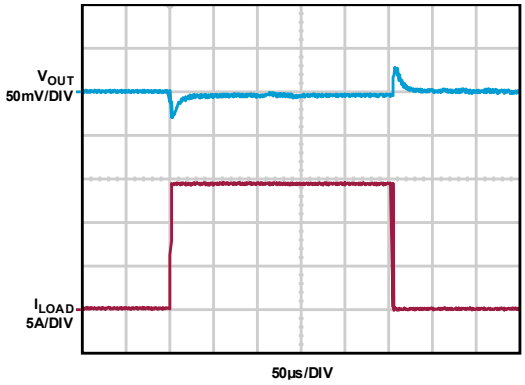


Figure 7. Load-Transient Response with Load Steps 0A to 15A to 0A

V_{IN} = 3.3V, V_{OUT} = 0.5V, f_{SW} = 1.5MHz; C_{OUT} = 2x10µF + 8x100µF, G_m = 2400µS, C_{TH} = 5600pF, R_{TH} = 1.4kΩ, C_{ITHP} = 33pF

LTpowerPlay Software GUI

LTpowerPlay is a powerful, Windows®-based development environment supporting Analog Devices' digital power system management (DPSM) ICs and µModule® regulators. The software supports a variety of tasks. Use LTpowerPlay to evaluate Analog Devices' ICs by connecting to an evaluation board system. LTpowerPlay can also be used in offline mode (with no hardware present) to build a multichip configuration file that can be saved and reloaded at a later time. LTpowerPlay provides unprecedented diagnostic and debug features, as seen in *Figure 8*. It becomes a valuable diagnostic tool during board bring-up to program or tweak the power management scheme in a system or to diagnose power issues when bringing up rails. LTpowerPlay utilizes the DC1613A USB-to-SMBus controller to communicate with one of many potential demo systems or a customer board. The software also provides an automatic update feature to keep the software current with the latest set of device drivers and documentation. The LTpowerPlay software can be downloaded from *LTpowerPlay* on the Analog Devices website.

To access technical support documents for Analog Devices' digital power products, visit the LTpowerPlay **Help** menu. Online help is also available through the LTpowerPlay GUI menu and on the *LTpowerPlay* page on the Analog Devices website.

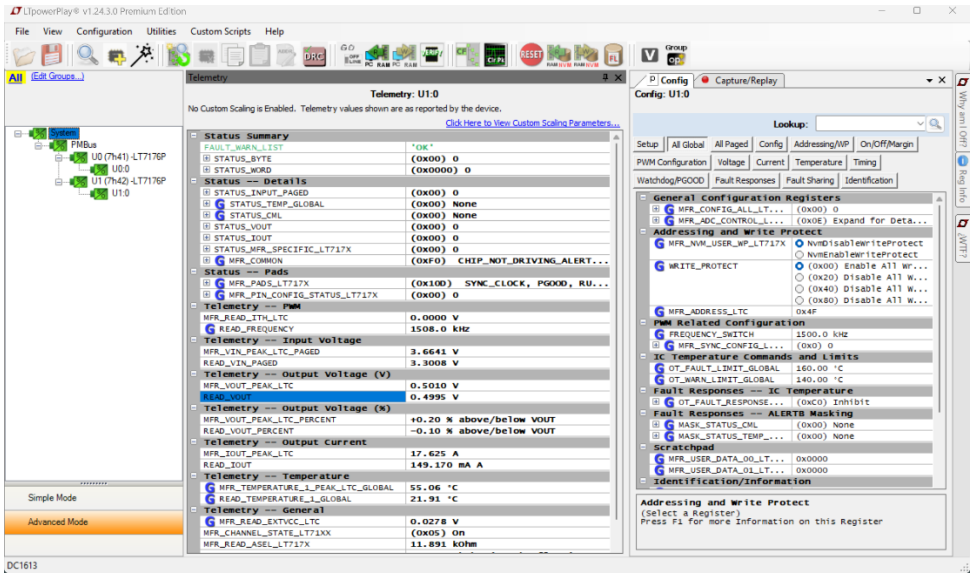


Figure 8. LTpowerPlay Main Interface

LTpowerPlay Quick Start Procedure

The following procedure describes how to use LTpowerPlay to monitor and change the settings of the LT7176P.

Note: In the following sections, software-related items are identified by bolding. Text in **bold** refers to items directly from the install or EV kit software.

1. Download and install the LTPowerPlay GUI, found at *LTpowerPlay* on the Analog Devices website.
2. Launch the LTpowerPlay GUI. The GUI should automatically identify the EVAL-LT7176P-AZ. The system tree on the left-hand side appears as shown in *Figure 9*.

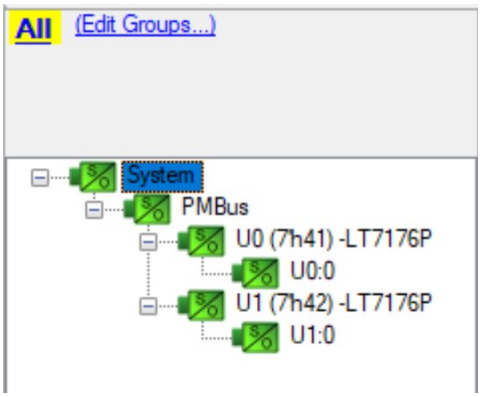


Figure 9. LTpowerPlay GUI System Tree

3. A green message box (*Figure 10*) shows for a few seconds in the lower left-hand corner, confirming that LT7176P is communicating:

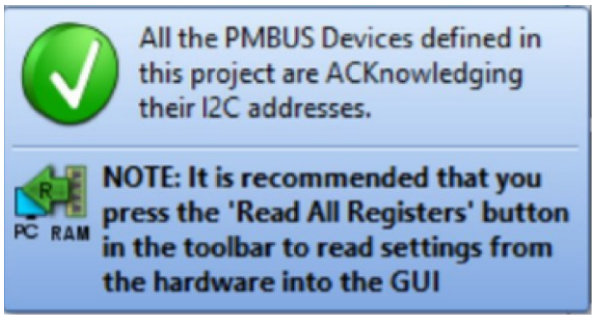


Figure 10. LT7176P Communication Popup Window

4. In the toolbar, click the **R** (RAM to PC) icon (*Figure 11*) to read the RAM from the LT7176P. Performing this action reads the configuration from the RAM of the LT7176P and loads it into the GUI.



Figure 11. R (RAM to PC) Icon

5. To change the output voltage to a different value (e.g., 0.6V) in the **Config** tab, type “0.6” in the **VOUT_COMMAND** box under the **Voltage** tab, as shown in *Figure 12*.

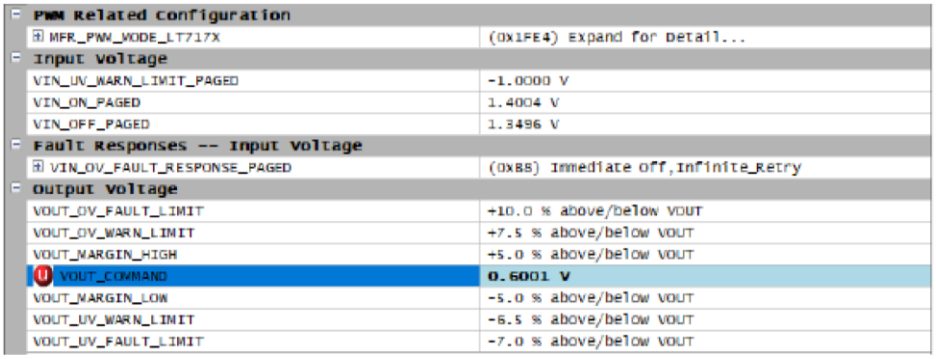


Figure 12. VOUT_COMMAND Box

6. Click the **W** (PC to RAM) icon (*Figure 13*) to write the register values to the LT7176P. After finishing this step, the output voltage changes to 0.6V.



Figure 13. W (PC to RAM) Icon

7. If the write is successful, the following **Success** message appears (*Figure 14*).

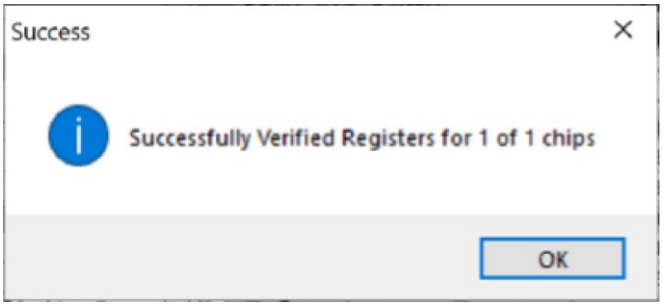


Figure 14. Successful Write Message

8. To save the changes to NVM in the tool bar, make sure that EXTVCC is biased at 9.6V to 13.2V. Then, click the **RAM to NVM** button.



Figure 15. RAM to NVM Icon

9. Save the evaluation board configuration to a (*.proj) file. Click the **Save** icon and save the file with a new name.
Note: For evaluations of multiple LT7176P ICs in parallel, it is recommended to change the MFR_RAIL_ADDRESS_LTC of all LT7176P ICs to a same value other than 0x80, any MFR_ADDRESS_LTC, or any of the illegal values listed in the LT7176P/LT7176P-1 PMBus I2C Reference Manual. Write the register values to LT7176P, then rebuild the system tree by clicking the **Re-enumerate** button.



Figure 16. Re-enumerate Icon/Button

Note: After this step, LTPowerPlay automatically synchronizes setting changes of all LT7176P ICs, and the write functions sends PMBus commands to MFR_RAIL_ADDRESS_LTC instead of MFR_ADDRESS_LTC of each LT7176P IC.

Ordering Information

PART	TYPE
EVAL-LT7176P-AZ	EV Kit

#Denotes RoHS-compliant.

EVAL-LT7176P-AZ Bill of Materials

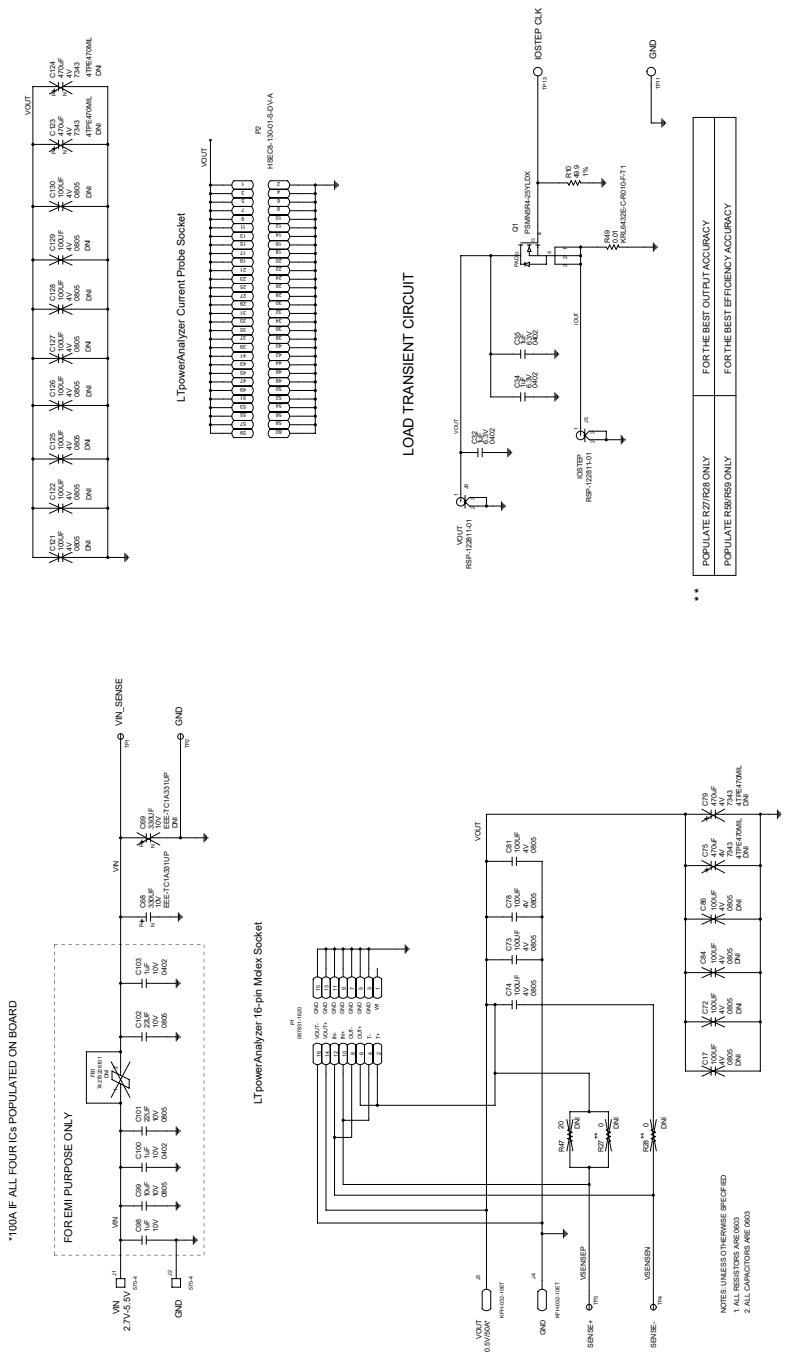
ITEM #	QTY	REFERENCE	DESCRIPTION	MFG	MFG_PN
CIRCUIT COMPONENTS					
2	4	C1,C3,C59,C63	CAP CER 10uF 10V 20% X5R 0402	SAMSUNG	CL05A106MP5NUNC
3	4	C7,C62,C100,C103	CAP CER 1uF 10V 10% X7S 0402	TDK	C1005X7S1A105K050BC
4	2	C101,C102	CAP CER 22UF 20% 10V X7R 0805	MURATA	GRM21BZ71A226ME15L
5	3	C8,C106,C107	CAP CER 1uF 25V 10% X7R 0603 AEC-Q200	MURATA	GCM188R71E105KA64D
6	1	C108	CAP CER 22uF 25V 20% X6S 0805 AEC-Q200	MURATA	GRT21BC81A226ME13L
7	9	C45,C46,C48,C97,C99,C109,C110,C111,C112	CAP CER 10uF 10V 10% X7R 0805	SAMSUNG	CL21B106KPQNNNE
8	2	C11,C66	CAP CER 4.7uF 16V 10% X5R 0603 LOW ESR	TDK	C1608X5R1C475K080AC
9	4	C15,C43,C55,C56	CAP CER 10UF 4V 10% X7T 0603 AEC-Q200	TDK	CGA3E1X7T0G106M080AC
10	4	C9,C18,C20,C21	CAP CER 4.7UF 25V 10% X6S 0603	MURATA	GRM188C81E475KE11D
11	2	C19,C28	CAP CER 33pF 50V 5% C0G 0603	YAGEO	CC0603JRNPO9BN330
12	8	C2,C5,C6,C40,C54,C60,C64,C65	CAP CER 0.1uF 10V 10% X7S 0201	MURATA	GRM033C71A104KE14D
13	1	C31	CAP CER 0.1uF 10V 10% X7R 0603	KEMET	C0603C104K8RACTU
14	3	C32,C34,C35	CAP CER 1uF 6.3V 10% X7R 0402	MURATA	GRM155R70J105KA12D
15	8	C36,C44,C57,C58,C73,C74,C78,C81	CAP CER 100UF 4V 20% X6S 0805	MURATA	GRM21BC80G107ME15K
16	1	C39	CAP CER 0.01uF 25V 10% X7R 0603	SAMSUNG	CL10B103KA8NNNC
17	2	C42,C61	CAP CER 1UF 25V 10% X5R 0402 AEC-Q200	MURATA	GRT155R61E105KE01D
18	1	C47	CAP CER 5600pF 50V 5% X7R 0603	AVX	06035C562JAT2A
19	1	C68	CAP ALUM 330UF 10V 20% 0.2OHM 0.41A 3000H AEC-Q200	PANASONIC	EEE-TC1A331UP
20	1	C98	CAP CER 1uF 10V 10% X7R 0603	KEMET	C0603C105K8RACTU
21	2	DS1,DS2	LED UNI-COLOR AMBER 595NM 1.9V	BROADCOM LIMITED	HSMA-C197
22	1	DS3	LED GREEN 570NM 2.2V 2LD 0603	BROADCOM LIMITED	HSMG-C190

23	2	J1,J2	CONN-PCB, BANANA JACK, FEMALE, NON-INSULATED, THT, SWAGE, 0.218 INCHES LENGTH	KEYSTONE ELECTRONICS	575-4
24	2	J3,J4	CONN-PCB THREADED BROACHING STUD, 625MIL LENGTH	PENN ENGINEERING	KFH-032-10ET
25	2	J5,J6	CONN-PCB COAX RCPT MALE 0HZ TO 6GHZ, 50OHM	SAMTEC INC.	RSP-122811-01
26	1	J7	CONN-PCB 12POS SHROUDER HDR, 2MM PITCH, 4MM POST HEIGHT, 2.5MM SOLDER TAIL	AMPHENOL	98414-G06-12ULF
27	1	JP1	CONN-PCB 3POS MALE HDR UNSHROUDED SINGLE ROW ST, 2MM PITCH, 2.70MM SOLDER TAIL	WURTH ELEKTRONIK	62000311121
28	2	L1,L2	IND POWER SHIELDED WIREWOUND 65NH 20% 0.00063OHM MAX DCR AEC-Q200	COILCRAFT INC.	XGL6030-650MEC
29	1	P1	CONN-PCB MILLI-GRID HDR VERT 16POS 2MM PITCH, 2.5MM SOLDER TAIL, 3.9MM POST HEIGHT	MOLEX	087831-1620
30	1	P2	CONN-PCB 60 POS VERT EDGE RATE CARD SOCKET	SAMTEC INC.	HSEC8-130-01-S-DV-A
31	1	Q1	TRAN MOSFET N-CH 25V 70A	NEXPERIA	PSMN5R4-25YLDX
32	1	Q2	TRAN MOSFET N-CH 60V 0.3A SOT-23 (TO-236)	VISHAY	2N7002K-T1-GE3
33	1	R1	RES SMD 6.81K Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF6811V
34	1	R10	RES SMD 49.9 Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF49R9V
35	6	R4,R7,R11,R37,R58,R59	RES SMD 0 Ohm JUMPER 1/10W 0603 AEC-Q200 PRECISION POWER	VISHAY	CRCW06030000Z0EA
36	3	R3,R12,R26	RES SMD 866 Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF8660V
37	2	R6,R13	RES SMD 4.99K Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF4991V
38	1	R14	RES SMD 1MEG Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF1004V
39	3	R18,R19,R39	RES SMD 16.5K Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF1652V
40	3	R2,R9,R52	RES SMD 10K OHM 1/10W 1% 0603 AEC-Q200	VISHAY	CRCW060310K0FKEA
41	1	R20	RES SMD 6.65K Ohm 1% 1/10W 0603 AEC-Q200	VISHAY	CRCW06036K65FKEA
42	1	R38	RES SMD 25.5K Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF2552V
43	1	R40	RES SMD 11.8K OHM 0.1% 1/10W 0603 AEC-Q200	PANASONIC	ERA-3AEB1182V
44	1	R49	RES SMD 0.01 OHM 1% 3W 2512 AEC-Q200 LONG SIDE TERM	SUSUMU CO, LTD	KRL6432E-C-R010-F-T1
45	2	R5,R8	RES SMD 4.7K Ohm 1% 1/10W 0603 AEC-Q200	VISHAY	CRCW06034K70FKEA
46	1	R53	RES SMD 1.4K OHM 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF1401V
47	1	SW1	SWITCH SLIDE DPDT 300MA 6V	C&K	JS202011CQN
48	4	TP1,TP2,TP3,TP4	CONN-PCB SOLDER TERMINAL TURRETS FOR CLIP LEADS	MILL-MAX	2308-2-00-80-00-00-07-0

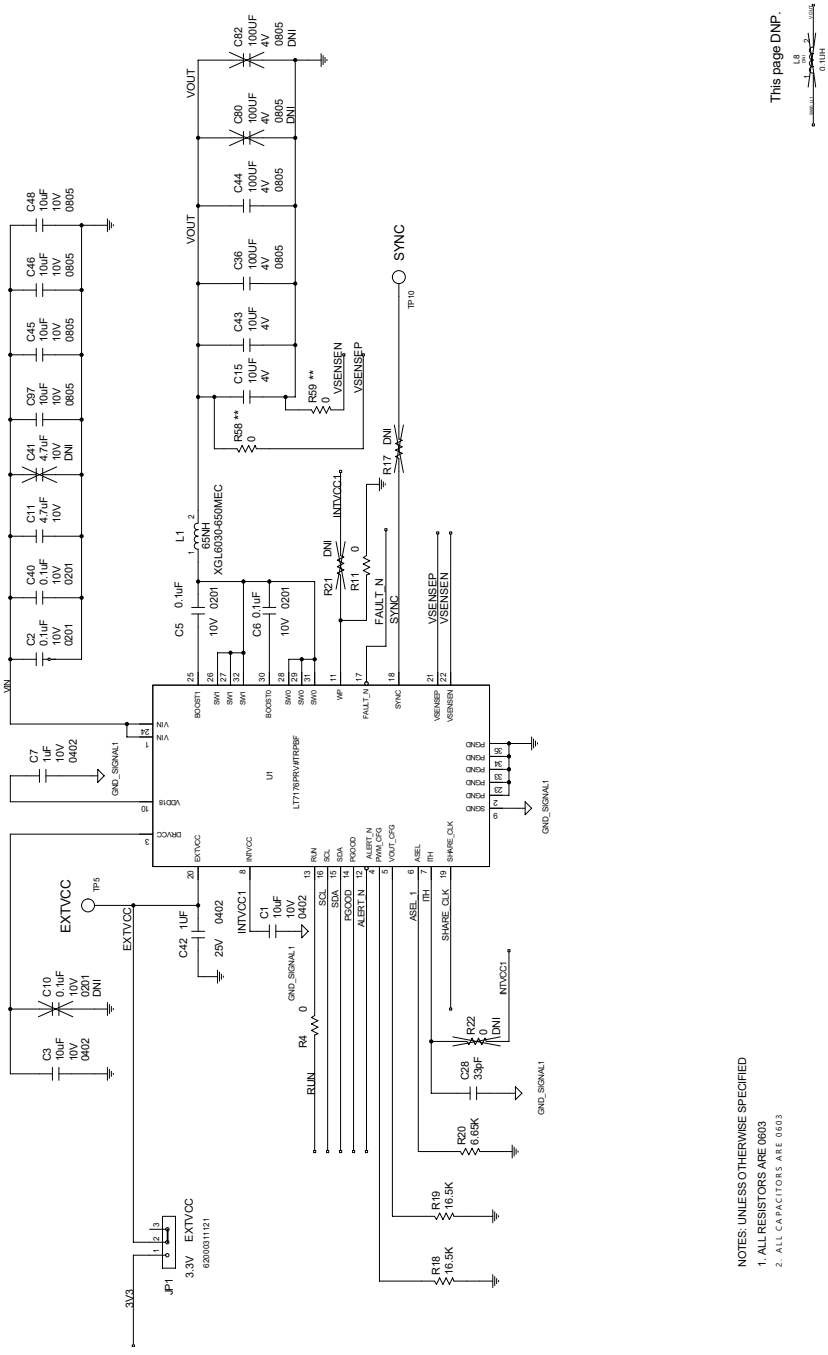
49	10	TP5,TP6,TP7,TP9,TP10,TP11,TP12,TP13,TP14,TP15	CONN-PCB SOLDER TERMINAL TEST POINT TURRET 0.094" MTG. HOLE PCB 0.062 INCH THK	MILL-MAX	2501-2-00-80-00-00-07-0
50	2	U1,U2	PRELIM IC-ADI 24A, 4V, SINGLE- OR DUAL-PHASE, SILENT SWITCHER STEP-DOWN REGULATORS WITH DIGITAL POWER SYSTEM MANAGEMENT	ANALOG DEVICES	LT7176PRV#TRPBF
51	1	U5	IC EEPROM 2KBIT I2C SERIAL EEPROM 400KHZ	MICROCHIP TECHNOLOGY	24LC025-I/ST
52	2	U6,U7	IC-ADI 18V, 12A IDEAL DIODE	ANALOG DEVICES	LTC4450AV#TRMPBF
53	1	U8	IC-ADI 100MA, LOW NOISE, LDO MICROPOWER REGULATORS IN TSOT-23	ANALOG DEVICES	LT1761ES5-2.8#TRMPBF
54	1	U9	IC-ADI OR CONTROLLER P-CHANNEL SINGLE 0.14OHM 5.5V 10LD DFN EP	ANALOG DEVICES	LTC4413EDD#PBF
DNI COMPONENTS					
2	12	C10,C12,C13,C14,C22,C30,C49,C52,C53,C71,C87,C88	CAP CER 0.1uF 10V 10% X7S 0201	MURATA	GRM033C71A104KE14D
3	24	C4,C16,C17,C25,C72,C80,C82,C83,C84,C85,C86,C93,C94,C96,C104,C105,C121,C122,C125,C126,C127,C128,C129,C130	CAP CER 100UF 4V 20% X6S 0805	MURATA	GRM21BC80G107ME15K
4	8	C113,C114,C115,C116,C117,C118,C119,C120	CAP CER 10uF 10V 10% X7R 0805	SAMSUNG	CL21B106KPQNNNE
5	4	C75,C79,C123,C124	CAP TANT 470uF 4V 20% 7343 LOW ESR 0.018 Ohm	PANASONIC	4TPE470MIL
6	4	C23,C24,C76,C77	CAP CER 10UF 4V 10% X7T 0603 AEC-Q200	TDK	CGA3E1X7T0G106M080AC
7	2	C26,C27	CAP CER 33pF 50V 5% C0G 0603	YAGEO	CC0603JRNPO9BN330
8	4	C29,C38,C91,C95	CAP CER 10uF 10V 20% X5R 0402	SAMSUNG	CL05A106MP5NUNC
9	2	C33,C70	CAP CER 1UF 25V 10% X5R 0402 AEC-Q200	MURATA	GRT155R61E105KE01D
10	2	C37,C92	CAP CER 1uF 10V 10% X7S 0402	TDK	C1005X7S1A105K050BC
11	6	C41,C50,C51,C67,C89,C90	CAP CER 4.7uF 16V 10% X5R 0603 LOW ESR	TDK	C1608X5R1C475K080AC
12	1	C69	CAP ALUM 330UF 10V 20% 0.2OHM 0.41A 3000H AEC-Q200	PANASONIC	EEE-TC1A331UP
13	2	D3,D4	DIO SCHOTTKY RECTIFIER 30V 1A SOD-323	DIODES INCORPORATED	SDM100K30L-7
14	1	FB1	IND FERRITE BEAD MULTI LAYER 100 OHM AT 100MHZ 25% 8A 0.006 OHM 1812 AEC-Q200	WURTH ELEKTRONIK	74279226101
15	4	L3,L4,L7,L8	IND POWER SHIELDED WIREWOUND 0.1UH 20% 1MHZ 19.7A 0.0029 OHM DCR AEC-Q200	COILCRAFT INC.	XGL4012-101MEC

16	2	L5,L6	IND POWER SHIELDED POWER 3.3UH 20% 23MHZ 6.4A 0.0243 OHM MAX DCR AEC-Q200	COILCRAFT INC.	XGL6020-332MEC
17	7	R15,R16,R22,R27,R28,R31,R43	RES SMD 0 Ohm JUMPER 1/10W 0603 AEC-Q200 PRECISION POWER	VISHAY	CRCW06030000Z0EA
18	5	R17,R21,R29,R35,R41	DO NOT INSTALL (TBD_R0603), USE SYM_3 AND/OR SYM_4	TBD0603	TBD0603
19	1	R32	RES SMD 36.5 Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF36R5V
20	3	R33,R34,R45	RES SMD 16.5K Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF1652V
21	1	R44	RES SMD 51.1K Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF5112V
22	1	R46	RES SMD 21K Ohm 1% 1/10W 0603 AEC-Q200	PANASONIC	ERJ-3EKF2102V
23	1	R47	RES SMD 20 Ohm 1% 1/10W 0603 AEC-Q200	VISHAY	CRCW060320R0FKEA
24	2	U3,U4	PRELIM IC-ADI 24A, 4V, SINGLE- OR DUAL-PHASE, SILENT SWITCHER STEP-DOWN REGULATORS WITH DIGITAL POWER SYSTEM MANAGEMENT	ANALOG DEVICES	LT7176PRV#TRPBF

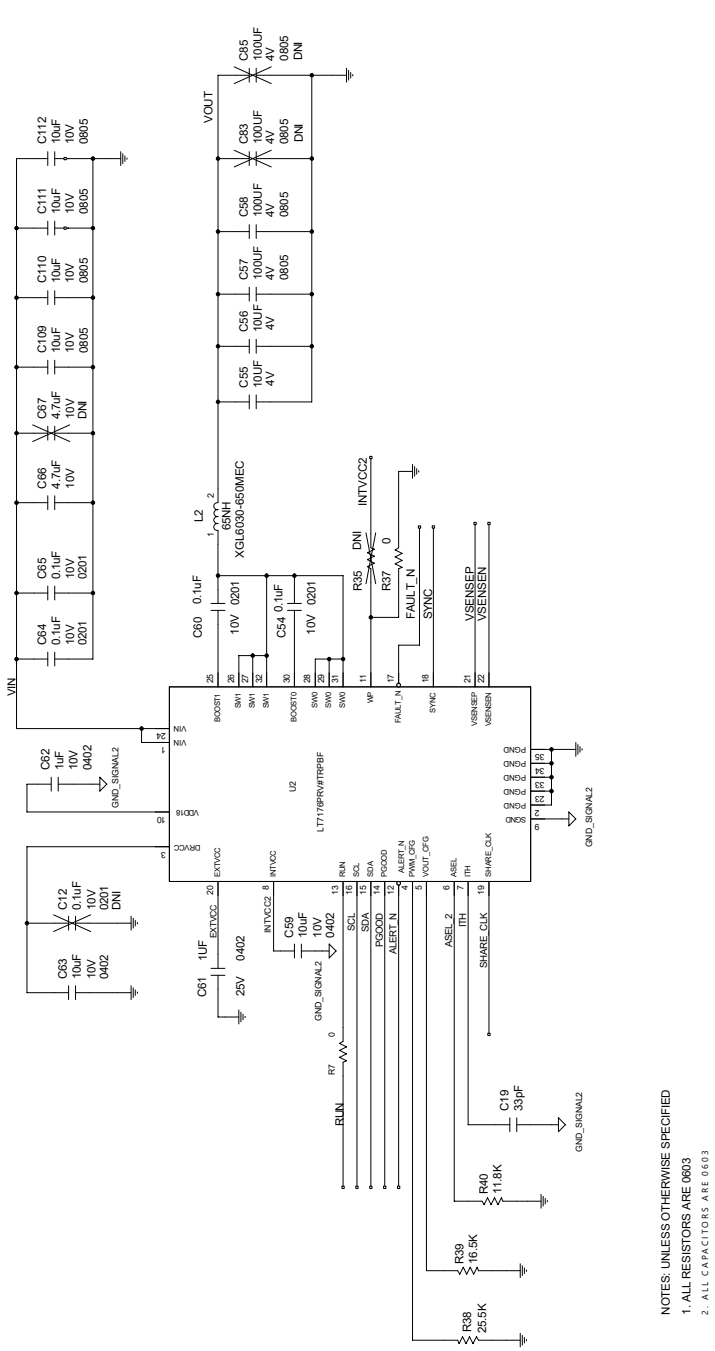
EVAL-LT7176P-AZ Schematic Diagrams



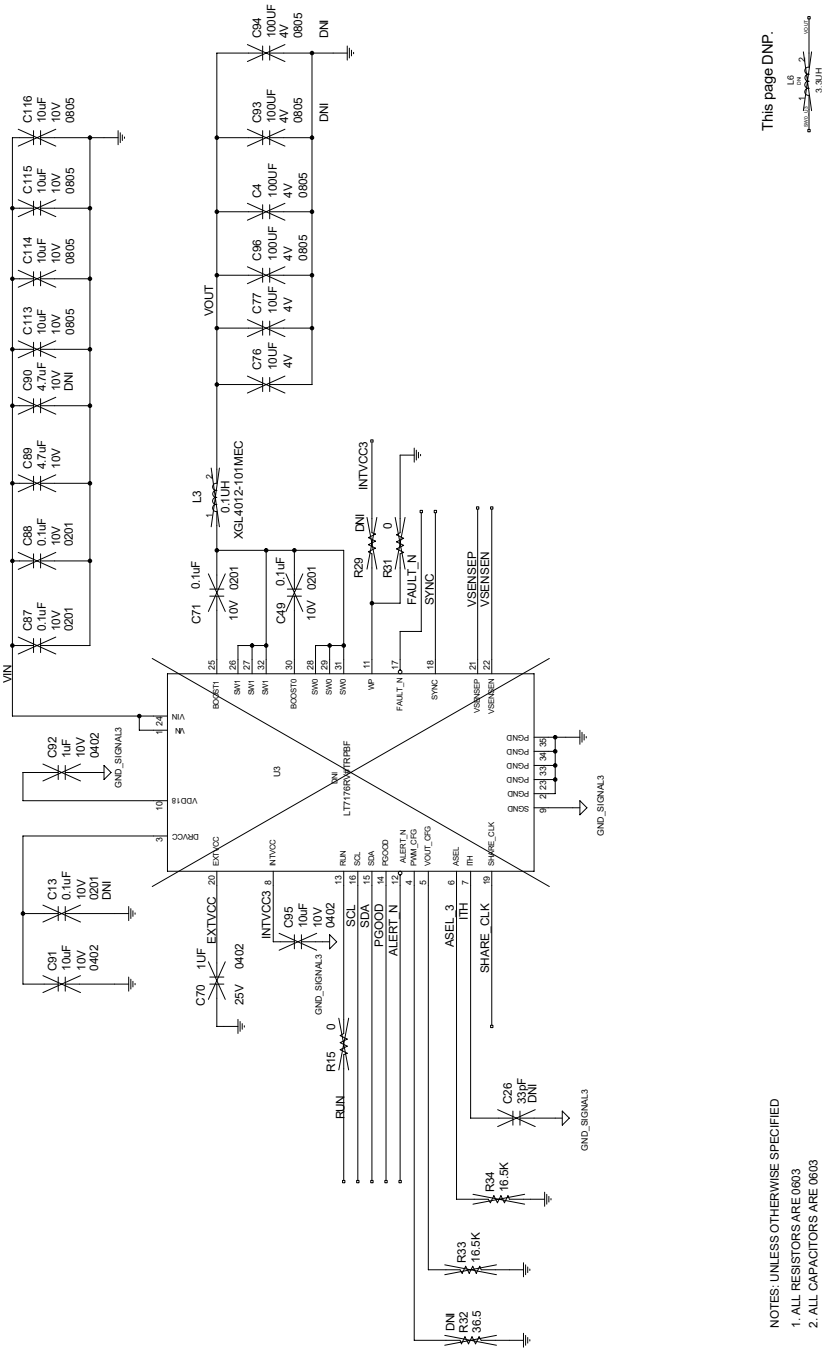
EVAL-LT7176P-AZ Schematic Diagrams (continued)



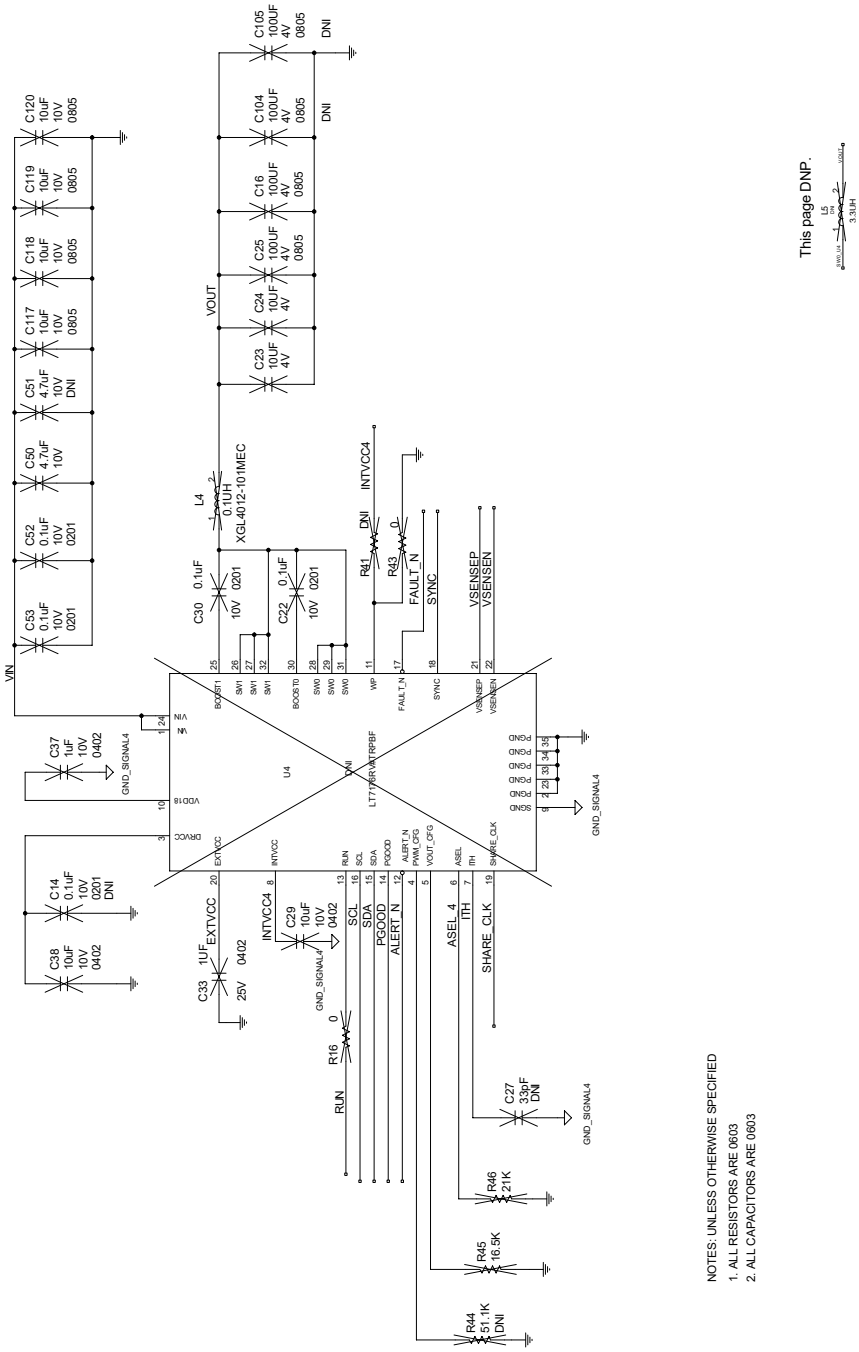
EVAL-LT7176P-AZ Schematic Diagrams (continued)



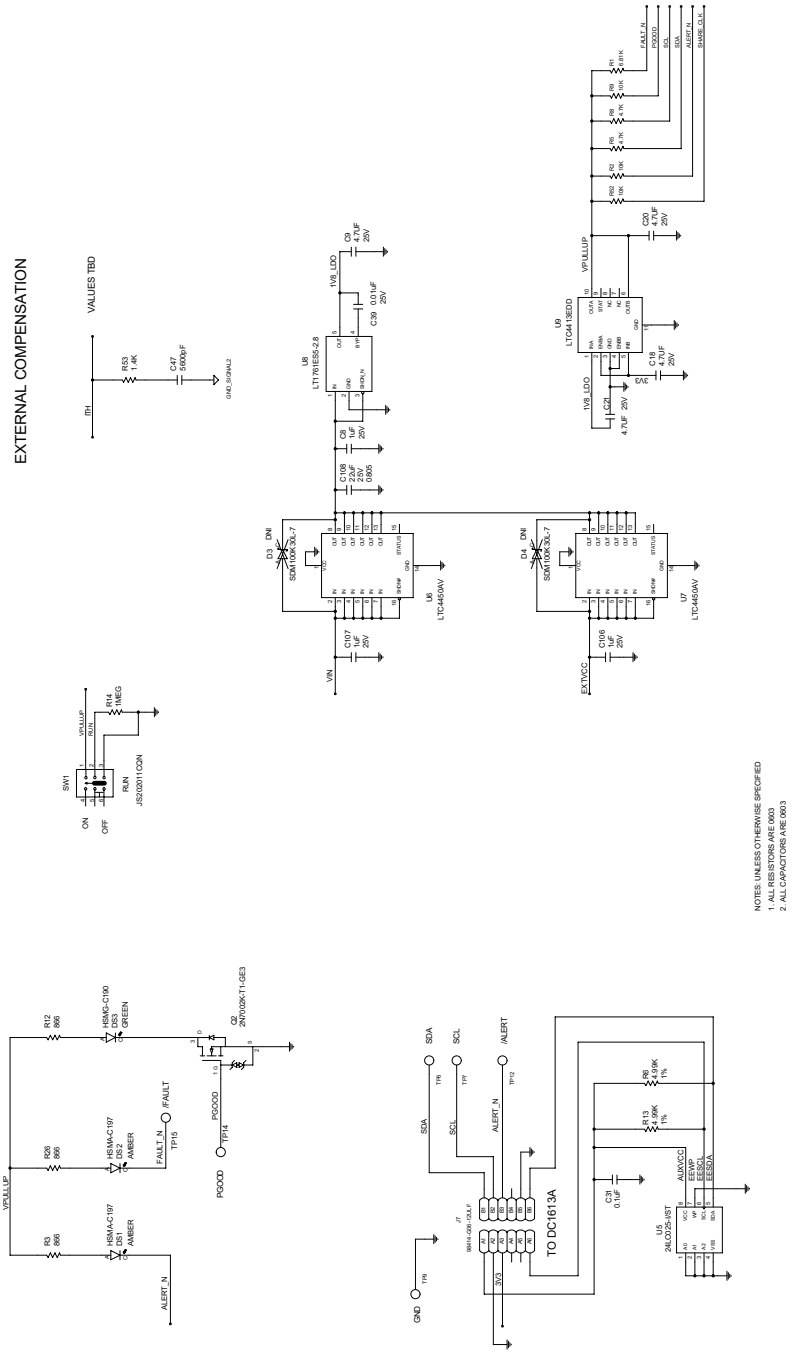
EVAL-LT7176P-AZ Schematic Diagrams (continued)



EVAL-LT7176P-AZ Schematic Diagrams (continued)



EVAL-LT7176P-AZ Schematic Diagrams (continued)



Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	10/26	Initial release	—

Notes

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