

ANALOG DEVICES MAX96751 EVKIT Evaluation Board User Guide

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ANALOG DEVICES MAX96751 EVKIT Evaluation Board



Specifications

• Product Name: MAX96751 Evaluation Kit

• Compatibility: HDMI 2.0 Serializer EV Kit

• Forward Link Rates: 3Gbps or 6Gbps

• Power Options: 12V DC Supply (Included), USB, PoC, Externally Powered

• Interface: I2S Audio Interface Header for GPIO, I2C, UART, and SPI Signals

• Software Compatibility: Windows 10-Compatible Software

• Features: Configurable Power-Over-Coax (PoC), Line Fault Circuits, GMSL Channel Signal Integrity Tools

· Assembly: Fully Assembled and Tested PCB Layout

Procedure

The MAX96751 COAX/STQ EV kit comes fully assembled and tested.

Follow these steps to verify board operation:

- 1. Step 1: Ensure all required equipment is available.
- 2. Step 2: Connect the MAX96751 coax EV kit and MAX96752 coax EV kit as per the provided instructions.
- 3. Step 3: Power up the system using the 12V DC supply or other power options.
- 4. Step 4: Install the evaluation kit software on your computer using the provided installation files.
- 5. Step 5: Use the graphical user interface program to interact with the evaluation kit.
- 6. Step 6: Utilize the tools provided to characterize the GMSL channel signal integrity.

FAQ

Q: Can I use the MAX96751 Evaluation Kit without a Windows PC?

A: No, the evaluation kit software is compatible with Windows operating systems only.

Evaluates: MAX96751

General Description

The MAX96751 evaluation kit (EV Kit) provides a proven design to evaluate the MAX96751 high-bandwidth gigabit multimedia serial-link (GMSL) serializer with spread spectrum and full-duplex control channel with the use of a

standard FAKRA coaxial cable. The EV kit also includes Windows® 10 software to provide a simple graphical user interface (GUI) for exercising features of the device.

For complete GMSL evaluation, order the MAX96751 coax EV kit and a companion deserializer board (MAX96752 coax EV kit referenced in this document).

Note: In the following sections, serializer refers to MAX96751. Deserializer refers to MAX96752.

Note: This document applies to both coax and HSD-STQ evaluation kits, coax EV kit is referenced in this document.

Benefits and Features

HDMI 2.0 Serializer EV Kit to Drive GMSL-2 Serial Data Outputs (50Ω FAKRA Coax or 100Ω HSD-STQ Connectors)

3Gbps or 6Gbps Forward Link Rates for System and Power Flexibility

- Configurable Power-Over-Coax (PoC) and Line Fault Circuits
- I2S Audio Interface
- · Header for GPIO, I2C, UART and SPI Signals
- · Windows 10-Compatible Software
- Tools to Characterize GMSL Channel Signal Integrity
- 12V DC Supply (Included), USB, PoC or Externally Powered
- · Proven PCB Layout
- Fully Assembled and Tested

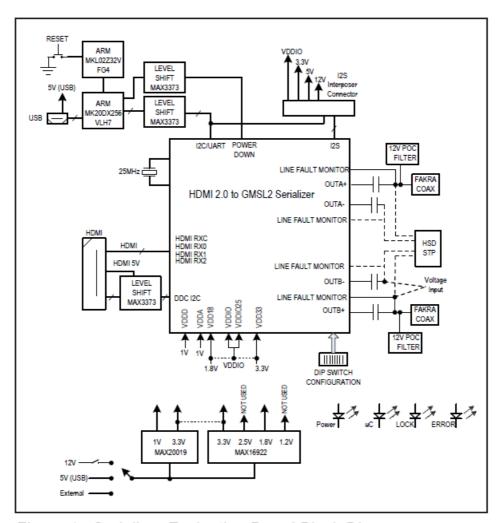


Figure 1. Serializer Evaluation Board Block Diagram

Ordering Information appears at end of data sheet.

Windows and Windows 10 are registered trademarks and registered service marks of Microsoft Corporation.

MAX96751 Evaluation Kit Quick Start

Required Equipment

To get started evaluating there are a few installation and setup requirements. This procedure walks you through the necessary steps for basic bring-up of the deserial-izer EV kit. Figure 2 shows a typical application using an HDMI Serializer with the oLDI deserializer.

Note: In the following sections, software-related items are identified by bolding. Text in bold refers to items from the EV Kit software. Text in bold and underlined refers to items from the Windows operating system.

Required Equipment

- MAX96751 coax EV kit
- MAX96752 coax EV kit
- FAKRA Coax Cable
- HDMI source, such as laptop computer or HDMI signal generator
- · oLDI Display and oLDI Adapter Board
- · Windows 10 PC with a spare USB port
- 12V DC, 500mA power supply

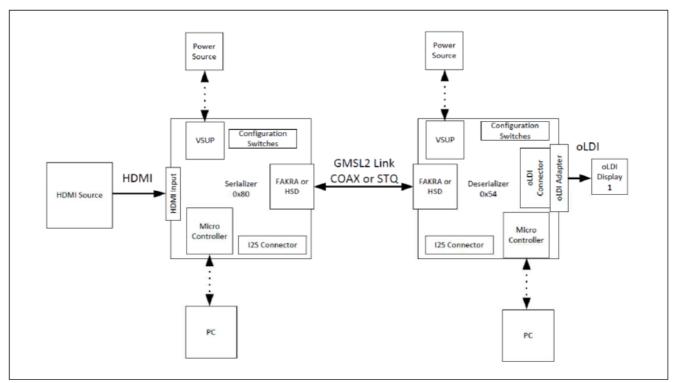


Figure 2. Typical GMSL System Evaluation Setup Block Diagram

Procedure

The MAX96751 COAX/STQ EV kit is shipped with the PCB fully assembled and tested. Follow the steps below to verify board operation:

1. Download and install latest GMSL2 EV kit software from the MAX96751 Evaluation Kit product page.

- 2. Verify that the on-board jumpers on the deserializer board are in their default positions (Figure 3) with SW1 off.
- 3. Configure SW3 as shown in Figure 3 to set serializer address to 0x80, coax mode, and I2C control.
- 4. Connect the FAKRA cable from the OUTA+ terminal on the serializer board to the INA+ terminal on the deserializer.
- 5. Connect the +12V wall DC power supply into J1. See Figure 4 for power supply details.
- 6. Turn SW1 on for both the serializer and deserializer EV kits.
- 7. Verify that the blue power LED and red Teensy® LED are illuminated.
- 8. Verify the lock LED on both serializer and deserial-izer EV kits light up, indicating that the link has been successfully established. If the LOCK_LED is off or ERRB LED is on the deserializer board, see the Troubleshooting section. Due to the default error conditions enabled on the serializer device versus the default hardware configuration of the serializer board, the ERRB LED will be illuminated upon powerup.
- 9. Connect the USB cable between the PC and J4 on the serializer EV kit. Start the GUI by selecting Start | Programs | Analog Devices Inc | GMSL-SerDesEV.
- 10. When the GUI opens, it automatically searches for any active listener in both I2C and UART mode and identifies a valid GMSL product. Once the serializer and deserializer are identified, they are shown as tabs in the GUI.
- 11. Read register 0x00 in both deserializer and serializer to ensure both devices are active.
- 12. The basic bring-up is now complete. Refer to Help |User's Manual for GUI operation, GMSL2 User's Guide for configuration of this device and its available features, or ADI Applications for additional details and support.

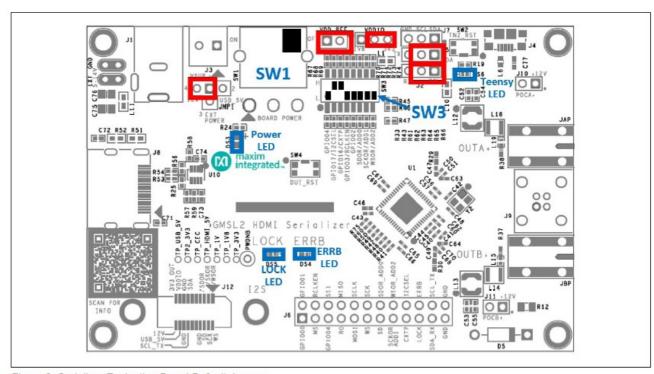


Figure 3. Serializer Evaluation Board Default Jumper

Table 1. Jumper Description

JUMPER	SIGNAL DEFAULT POSITI ON		FUNCTION	
JMP1	VSUP	12V	Select source of board power	

VDDIO	VDDIO	3.3V	Select between 1.8V and 3.3V
J2	SCL_TX	SCL	I2C or UART connection to serializer
J5	SDA_RX	SDA	I2C or UART connection to serializer
J10	POCA	Open	Power-over-coax enable for PHY A
J11	POCB	Open	Power-over-coax enable for PHY B
C63/C51	SIOA+	C63 (FAKRA/COA X)	Allows switching between FAKRA and HSD connector
C64/C70	SIOB+	C64 (FAKRA/COA X)	Allows switching between FAKRA and HSD connector
C47/C50	SIOA-	C47 (AC Term)	Allows switching between AC termination and HSD connector
C49/C68	SIOB-	C49 (AC Term)	Allows switching between AC termination and HSD connector
J6	GPIO00	N/A	Test Point
J6	MS	N/A	Test Point
J6	GPIO04	N/A	Test Point
J6	RO	N/A	Test Point
J6	MOSI	N/A	Test Point
J6	ws	N/A	Test Point
J6	SD	N/A	Test Point
J6	SCKOR_ADD	N/A	Test Point
J6	СХТР	N/A	Test Point
J6	LOCK	N/A	Test Point
J6	SDA_RX	N/A	Test Point
J6	GND	N/A	Test Point
J6	GPIO01	N/A	Test Point
J6	RCLKEN	N/A	Test Point
J6	SS1	N/A	Test Point
J6	MISO	N/A	Test Point

J6	SCLK	N/A	Test Point
J6	SCK	N/A	Test Point
J6	SDOR_ADD0	N/A	Test Point
J6	WSOR_ADD2	N/A	Test Point
J6	I2CSEL	N/A	Test Point
J6	ERRB	N/A	Test Point
J6	SCL_TX	N/A	Test Point
J6	GND	N/A	Test Point

JUMPER	SIGNAL	DEFAULT POSITI ON	FUNCTION		
TP_USB_5V	USB 5V	N/A	Test Point		
TPS_3V3	3.3V	N/A	Test Point		
TP_CEC	CEC (HDMI) N/A		Test Point		
TP_HDMI_5V	HDMI 5V	N/A	Test Point		
TP_1V	1V	N/A	Test Point		
TP_1V8	1.8V	N/A	Test Point		
TP_3V3	3.3V	N/A	Test Point		
PWDNB	Power Down (active low)	N/A	Test Point		

Table 2. Items Included in the Evaluation Kit Package

ITEM DESCRIPTION	QTY
MAX96751 EV Kit	1
USB Cable	1
+12V Wall Supply	1

Troubleshooting

If the MAX96751 EV Kit fails to power up or does not function properly, try the appropriate remedial actions below:

- 1. Make sure the boards' red power switches (SW1) are set to the ON position.
- 2. Verify that the device is powered properly. Check to ensure that the voltages at all device pins are within their

- operating ranges.
- 3. Check that all jumpers are correctly set. Refer to the default jumper settings table in the serializer and deserializer EV kit data sheets. Also, ensure that all jumpers are firmly attached. Replace loose or damaged jumpers if necessary.
- 4. Check that the USB cable is properly seated in the USB port. The USB LED should be lit if connected to a PC, even if the board is powered down.
- 5. Check that the serializer and deserializer GMSL generations match. Both devices should start in the same mode (GMSL2).
- 6. Check that the COAX/STQ cable connection between serializer and deserializer is good—it clicks when plugged in fully.
- 7. Check to see if the DUT has been inadvertently put into Teensy reset mode. The board's TEENSY_RST button should only be pressed when firmware is being flashed to the DUT. If the button is pressed during normal operation, the device goes into Teensy reset mode. Power-cycle the board to resume normal operation with the current firmware.
- 8. Check that the I2C/UART jumpers match the DUT communication mode (SCL/SDA for I2C, TX/RX for UART).
- 9. Check that the AC coupling capacitors are populated correctly and routing the serial link to the correct connector for COAX or STQ mode. For coax boards, capacitors C63 and C46 (SIOA) and capacitors C64 and C49 (SIOB) should be populated. For HSD boards, capacitors C60 and C51 (SIOA), and capacitors C68 and C70 (SIOB) should be populated. (MAX96751 COAX/HSD EV kit boards are shipped with the correct capacitors installed.)
- 10. Check if the LOCK LED is ON in the absence of a connection to the deserializer: If so, then the DUT is either not powered correctly or damaged.
- 11. Check that the microcontroller firmware is active by observing the blinking red Teensy LED (DS6) at power-up. If the LED is not blinking, refer to the available software documentation to reprogram the microcontroller.
- 12. Check that the PC is detecting the COM port when the micro-USB cable is connected. Use the Windows Device Manager to check COM port status.
- 13. Power-cycle the board and reopen the GUI.
- 14. Serializer board is faulty, try a new or different serializer board.

Detailed Description of Hardware

The power configuration of the EV kit hardware may be re-configured to allow external supply connections. Figure 4 shows the power connection options.

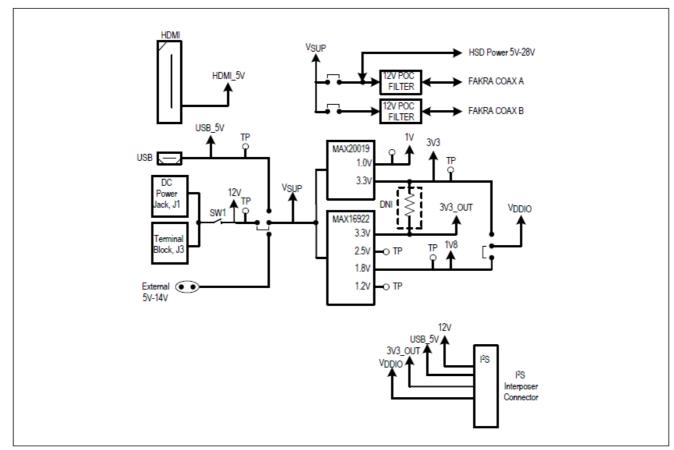


Figure 4. Serializer Evaluation Board Power Connection Diagram

Component Suppliers

SUPPLIER	PHONE	WEBSITE
Amphenol RF	800-627-7100	www.amphenolrf.com
Hong Kong X'tals Ltd.	852-35112388	www.hongkongcrystal.com
Murata Electronics North America, In c.	770-436-1300	www.murata-northamerica.com
ON Semiconductor	602-244-6600	www.onsemi.com
Rosenberger Hochfrequenztechnik G mbH	011-49-86 84-18-0	www.rosenberger.de
TDK Corp.	847-803-6100	www.component.tdk.com

Note: Indicate that you are using the MAX96751 when contacting these component suppliers.

Ordering Information

PART	ТҮРЕ
MAX96751COAXEVKIT#	EV kit
MAX96751HSDEVKIT#	EV kit
MAX-GMSL-I2S-ADP#	I2S Audio Adapter

MAX96751EV Kit Bill of Materials

IT E M	REF_DE S	DNI /DN P	Q T Y	MFG PART#	MANUFACTUR ER	VALUE	DESCRIPTION	COM MEN TS
1	C1, 2	_	2	EMK316BB72 26ML	TAIYO YUDEN	22UF	CAPACITOR; SMT (1206); CERAMIC CHIP; 22UF; 16 V; TOL=20%; TG=-55 DEG C TO +125 DEGC; TC=X7 R	
2	C6, C7	_	2	C3216X5R1E 476M160AC	TDK	47UF	CAPACITOR; SMT (1206); CERAMIC CHIP; 47UF; 25 V; TOL=20%; MODEL=C S ERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R;	
3	C8, C9, C 12-C14, C19- C25 , C77	_	13	GRT188R61C 106KE13	MURATA	10UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 10UF; 16 V; TOL=10%; TG=-55 DEG C TO +85 DEGC; TC=X5R; AUTO	
4	C10, C11 , C17, C1 8, C26, C 29-C32, C34-C41, C46, C47 , C49, C5 2, C53, C 56, C58, C59, C62 -C64, C6 6, C67, C 72-C74, C78	_	34	CGA2B3X7R 1H104K050B B;C1005X 7R 1H104K050B B;GRM155R7 1H104 KE14; GCM155R71 H104KE02;C1 005 X7R1H104K0 50BE;UMK10 5B7104K V-F R;CGA2B3X7 R1H104K050 BE	TDK;TDK;MURA TA;MURATA;TD K;TAIYO YUDEN ;TDK	0.1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1UF; 50V; TOL=10%; TG=-55 D EGC TO +125 DEGC; TC= X7R	
5	C15	_	1	C1608X7R1V 105K080AC;C GA3E1X 7R1 V105K080AC	TDK;TDK	1UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 1UF; 35V ; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R	
6	C16, C28 , C33	_	3	GRM188Z71 C225KE43	MURATA	2.2UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 2.2UF; 16V; TOL=10%; TG=-55 DEGC TO +125 D EGC; TC=X7R	

7	C42, C48	_	2	C0402C0G50 0-150JNP; G RM1555C1H1 50JA01	VENKEL LTD.;M URATA	15PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 15PF; 50 V; TOL=5%; TG=-55 DEGC TO +125 DEGC; TC =C0G	
8	C43-C45, C54, C55 , C57, C6 0, C61, C 65, C69	_	10	GRM155R71 H103JA88	MURATA	0.01UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01UF; 50V; TOL=5%; TG=-55 DE GC TO +125 DEGC; TC=X 7R	
9	C71	_	1	C0402C0G50 0- 470JNE;C C0402JRNPO 9BN470;GR M1555C1H47 0JA01;CL05C 470JB5N NN	VENKEL LTD.;Y AGEO PHYCOM P;MURATA;SAM SUNG ELECTR ONICS	47PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 47PF; 50 V; TOL=5%; MODEL=; TG =-55 DEGC TO +125 DEG C; TC=C0G	
1 0	C75, C7 6	_	2	TMK212AB74 75K;CGJ4J1X 7R1E475 K125AC;C201 2X7R1E475K 125AB;C GA 4J1X7R1E475 K125AC;GRM 21BZ 71E475KE15	TAIYO YUDEN;T DK;TDK;TDK;M URATA	.7UF	CAPACITOR; SMT (0805); CERAMIC CHIP; 4.7UF; 25V; TOL=10%; TG=-55 D EGC TO +125 DEGC; TC= X7R	
11	D1, D2	_	2	ES1D	FAIRCHILD SE MICONDUCTOR	ES1D	DIODE; RECT; SMA (DO-2 14AC); PIV=200V; IF=1A	-
12	D3	_	1	DFLS140L	DIODES INCOR PORATED	DFLS140 L	DIODE; SCH; SMT (POWE RDI-123); PIV=40V; IF=1A	
13	D4	-	1	B360B-13-F	DIODES INCOR PORATED	B360B-1 3-F	DIODE; SCH; SCHOTTKY BARRIER DIODE; SMB; PI V=60V; Io=3A; -55 DEGC TO +125 DEGC	
14	D5	_	1	1N4742A	FAIRCHILD SE MICONDUCTOR	12V	DIODE, ZENER, DO-41, P d=1W, Vz=12V@lz=21mA	
15	DS3	_	1	SMLE13BC8T	ROHM SEMICO NDUCTOR	SMLE13 BC8T	DIODE; LED; SML-E1 SER IES; BLUE; SMT (0603); V F=2.9V; IF=0.005A;	
16	DS4, DS6	_	2	SML-P11UTT 86	ROHM	SML-P11 UTT86	DIODE; LED; SMT; PIV=1. 8V; IF=0.02A	
17	DS5	_	1	SML-P11MTT 86	ROHM	SML-P11 MTT86	DIODE; LED; SMT; PIV=5V ; IF=0.02A	

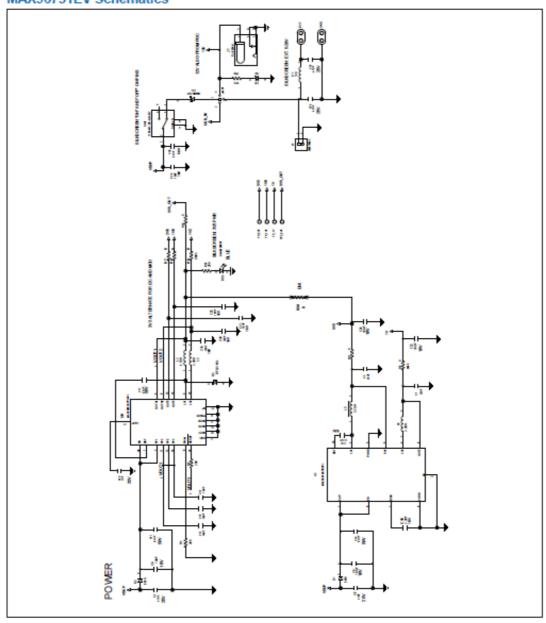
18	EXT, GN D	_	2	9020 BUSS	WEICO WIRE	MAXIMP AD	EVK KIT PARTS; MAXIM P AD; WIRE; NATURAL; SOLID; WEICO WIRE; SO FT DRAWN BUS TYPE-S; 20AWG	
19	J1	_	1	PJ-002AH	CUI INC.	PJ-002A H	CONNECTOR; MALE; THR OUGH HOLE; DC POWER JACK; RIGHT ANGLE; 3PINS	
20	J2, J5, V DDIO	_	3	PCC03SAAN	SULLINS	PCC03S AAN	CONNECTOR; MALE; THR OUGH HOLE; BREAKAWA Y; STRAIGHT THROUGH; 3PINS; -65 DEGC TO +125 DEGC	
						2005700	CONNECTOR; FEMALE; T HROUGH HOLE; 0.3MM PI TCH BEAU	
21	J3	_	1	393570002	MOLEX	3935700 02	EUROSTYLE FIXED MOU NT PCB TERMINAL BLOC K; RIGHT ANGLE; 2PINS	
22	J4	_	1	1981568-1	TE CONNECTIVI TY	1981568- 1	CONNECTOR; FEMALE; S MT; MICRO USB STANDA RD TYPE B ASSY; RIGHT ANGLE; 5PINS	
23	J6	_	1	PEC12DAAN	SULLINS ELECT	PEC12D	CONNECTOR; MALE; THR OUGH HOLE; .1IN CC; BR EAKAWAY	
					RONICS CORP	AAN	HEADER; STRAIGHT; 24P INS	
24	J7	_	1	PBC03SAAN	SULLINS	PBC03S AAN	CONNECTOR; MALE; THR OUGH HOLE; BREAKAWA Y; STRAIGHT; 3PINS; -65 DEGC TO +125 DEGC	
25	J8	_	1	HDMR-19-01 -S-SM	SAMTEC	HDMR-1 9-01-S-S M	CONNECTOR; FEMALE; S MT; HIGH SPEED I/O REC EPTACLE; RIGHT ANGLE; 19PINS	
26	J10, J11	_	2	PCC02SAAN	SULLINS	PCC02S AAN	CONNECTOR; MALE; THR OUGH HOLE; BREAKAWA Y; STRAIGHT THROUGH; 2PINS; -65 DEGC TO +125 DEGC	

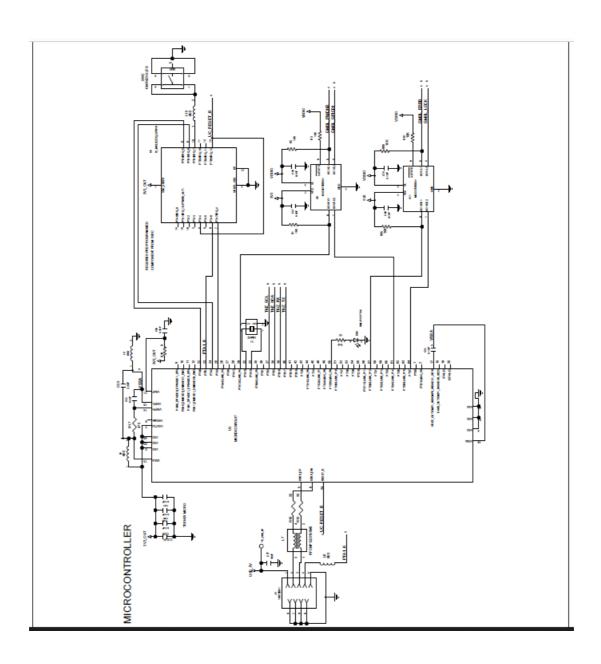
27	J12	_	1	ERF8-010-05 .0-S-DV-K	SAMTEC	ERF8-01 0-05.0-S -DV-K	CONNECTOR; FEMALE; S MT; RUGGED HIGH SPEE D SOCKET; STRAIGHT; 20PINS;	
28	JAP, JBP	_	2	59S2AQ-40M T5-Z_1	ROSENBERGE R	59S2AQ- 40MT5-Z _1	CONNECTOR; MALE; THR OUGH HOLE; FAKRA-HF RIGHT ANGLE PLUG PCB WITH HOUSING; RIGHT A NGLE; 5PINS	
29	JMP1	_	1	PEC04SAAN	SULLINS ELECT RONICS CORP.	PEC04S AAN	CONNECTOR; MALE; THR OUGH HOLE; BREAKAWA Y; STRAIGHT; 4PINS	
30	L1, L6, L8 -L10	_	5	BLM18KG601 SN1	MURATA	600	INDUCTOR; SMT (0603); F ERRITE-BEAD; 600; TOL= +/-25%; 1.3A	
31	L2	_	1	DFE252012P- 4R7M=P2	MURATA	4.7UH	INDUCTOR; SMT (2520); F ERRITE CORE; 4.7UH; TO L=+/-20%; 1.7A	
32	L3, L4	_	2	TFM201610A LMA2R2MTA A	TDK	2.2UH	INDUCTOR; SMT (2016); T HIN FILM; 2.2UH; TOL=+/- 20%; 2.1A	
33	L5	_	1	TFM252012A LMA-3R3MT AA	TDK	3.3UH	EVKIT PART-INDUCTOR; SMT; ORIGINAL FINE CO PPER; 3.3UH; TOL=+/- 20%; 2.2A	
34	L7	_	1	RFCMF12201 00M3	WALSIN TECHN OLOGY CORPO RATION	RFCMF1 220100M 3	INDUCTOR; SMT; CERAMIC CHIP; CHOKE; 0.3A	
35	L11	_	1	BLM18SG121 TN1	MURATA	120	INDUCTOR; SMT (0603); F ERRITE-BEAD; 120; TOL= +/-25%; 3A	
36	L12, L13	_	2	LPS4040-154 MR	COILCRAFT	150UH	INDUCTOR; SMT; FERRIT E; 150UH; 20%; 0.65A;	
37	L14, L18	_	2	1210POC-22 3MR	COILCRAFT	22UH	INDUCTOR; SMT; FERRIT E; 22UH; 20%; 0.7A;	
38	L15, L19	_	2	PFL1005-561 MR	COILCRAFT	560NH	INDUCTOR; SMT (0402); S HIELDED; 560NH; 20%; 0. 53A	
3 9	PWDNB	_	1	5000	KEYSTONE	N/A	TEST POINT; PIN DIA=0.1I N; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; RE D; PHOSPHOR BRONZE WIRE SILVER PLATE FINI SH;	

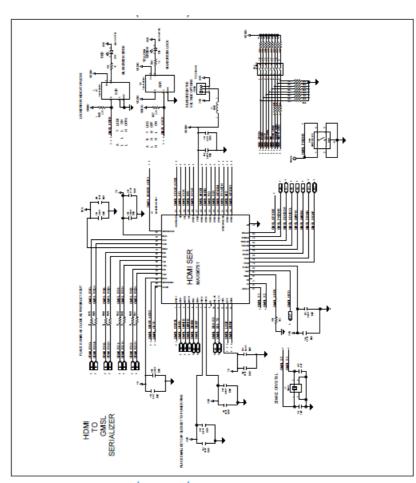
40	R1-R3, R 20-R23, R25, R26 , R33, R4 3, R55-R 59, R61- R66, R80 , R81	_	24	ERJ-2GEJ10 3	PANASONIC	10K	RESISTOR; 0402; 10K OH M; 5%; 200PPM; 0.10W; T HICK FILM	
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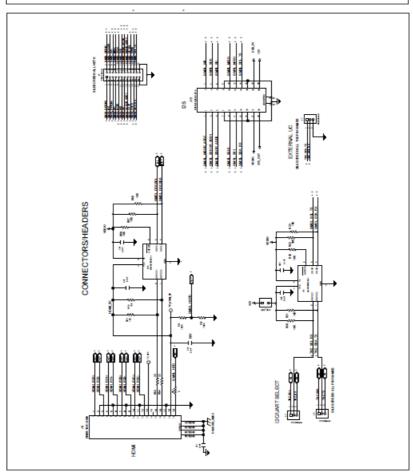
MAX96751EV Schematics

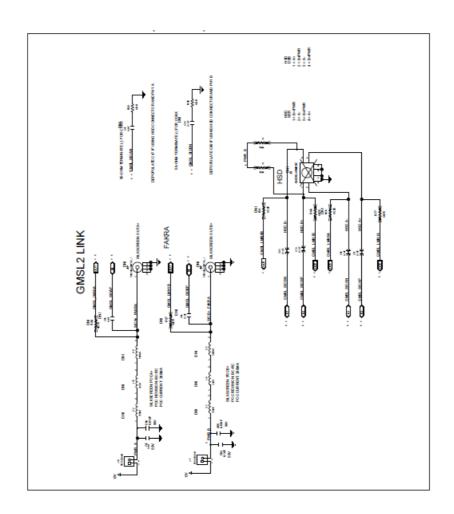
MAX96751EV Schematics





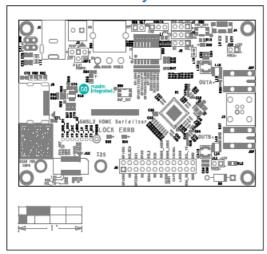




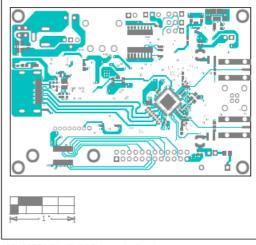


MAX96751 Evaluation Kit

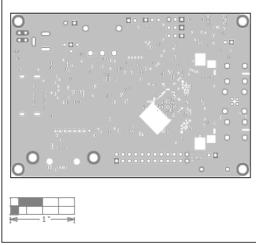
MAX96751EV PCB Layouts



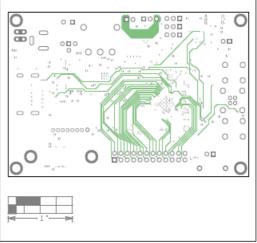
MAX96751 EV Kit Component Placement Guide—Top Silkscreen



MAX96751 EV Kit PCB Layout—Top Layer

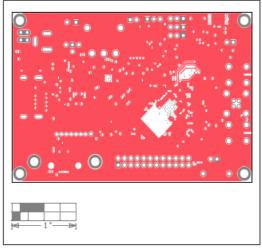


MAX96751 EV Kit PCB Layout—Internal 2

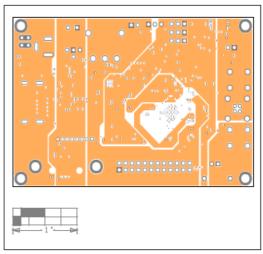


MAX96751 EV Kit PCB Layout—Internal 3

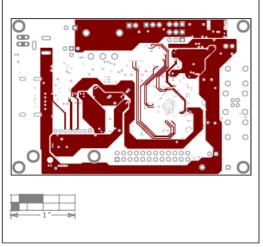
MAX96751EV PCB Layouts (continued)



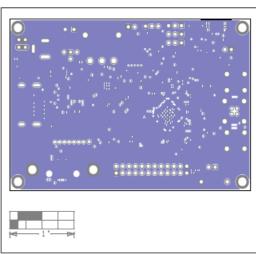
MAX96751 EV Kit PCB Layout—Internal 4



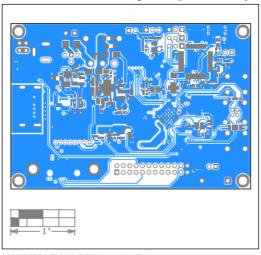
MAX96751 EV Kit PCB Layout—Internal 5



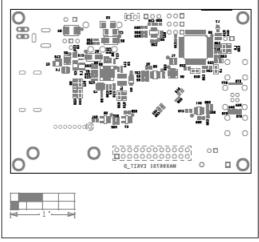
MAX96751 EV Kit PCB Layout—Internal 6



MAX96751 EV Kit PCB Layout—Internal 7



MAX96751 EV Kit PCB Layout—Bottom



MAX96751 EV Kit PCB Layout—Bottom Silkscreen

Revision History

REVISIO N NUMB ER	REVISIO N DATE	DESCRIPTION	PAGES CHANG ED
0	11/23	Initial release	_

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Documents / Resources



ANALOG DEVICES MAX96751 EVKIT Evaluation Board [pdf] User Guide MAX96751 EVKIT Evaluation Board, MAX96751, EVKIT Evaluation Board, Board Board

References

- M PJRC: Electronic Projects
- Home Hong Kong Crystal
- R Rosenberger Group Radio Frequency, High-Voltage and Fiber Optic Connections
- User Manual

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