

Evaluates: MAX30210

MAX30210 Evaluation Kit

General Description

The MAX30210 evaluation kit (EV kit) provides a single platform to evaluate the MAX30210, a $\pm 0.1^{\circ}$ C accurate temperature sensor. The EV kit consists of two boards which are connected through headers, a MAX32630FTHR microcontroller board, and the MAX30210 interface board. It also included with the EV kit is a flex PCB which holds the MAX30210 IC. The MAX32630FTHR contains the firmware necessary to use the PC GUI program and provides power to the MAX30210 interface board. The MAX30210 interface board ships with jumpers preinstalled to allow quick evaluation of the MAX30210.

Features

- Flexible PCB Design
 - Low Thermal Mass for Fast Response Time
 - Sense Temperature away from Extra Circuitry
- Easy to Reach Test Points
- Fully Assembled and Tested
- Windows[®] 7, 8, and 10-Compatible Software

MAX30210 EV Kit Files

FILE DESCRIPTION MAX30210EVKitTool.exe PC GUI Program

MAX30210 EV Kit Photo

Quick Start

Required Equipment

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

- MAX30210_INTERFACE_EVKIT_A
- MAX30210_SENSOR_FLEX_EVKIT_A
- MAX32630FTHR
- Micro-USB cable
- Windows PC with USB port

Note: MAX30210_INTERFACE_EVKIT_A and MAX30210_SENSOR_FLEX_EVKIT_A design files are attached at the end of this document.

Procedure

The EV kit is tested and shipped in three pieces. Follow the steps below to verify board operation:

- 1) Plug the MAX32630FTHR into the MAX30210_ INTERFACE_EVKIT_A.
- Connect the MAX30210_SENSOR_FLEX_EVKIT_A to J9 on the interface board, ensuring the contact pads are on the bottom.

Ordering Information appears at end of data sheet.



Windows is a registered trademark and registered service mark of Microsoft Corporation.

- 3) Set the EV kit hardware on a non-conductive surface to ensure nothing on the PCBs short together.
- 4) Connect the EV kit hardware to a PC with the provided USB cable. Attach the micro-USB end to the MAX32630FTHR and the other end to the PC. LED D1 on the MAX32630FTHR begins blinking blue.
- 5) Microsoft Windows automatically begins installing the necessary device driver. Once the driver installation is complete, a Windows message appears near the system icon menu, indicating the hardware is ready to use. Do not attempt to run the GUI prior to this message. To do so, close the application and restart it once the driver installation is complete. On some versions of Windows, administrator privileges are required to install the USB device.
- Once the device drivers are installed, download the EV kit software from <u>www.analog.com/evkit-</u> <u>software</u> (MAX30210EVKitSoftwareInstall.ZIP) and extract it to a temporary folder.
- 7) Open the extracted ZIP folder and double-click the .EXE file to run the installer. If a message box stating 'The publisher could not be verified. Are you sure you want to run this software?' appears, select **Yes**.
- When the installer GUI appears, click Next. Select the installation paths and if a shortcut should be created on the desktop. When prompted, press Install. Once complete, click Close.
- 9) If a shortcut is created, double-click on the created shortcut to start the GUI. Alternatively, go to Start | All Programs. Find the MAX30210EVKitTool folder and click on the MAX30210EVKitTool.EXE file inside the folder.
- 10) When the GUI appears, the text in the right field of the bottom status bar displays **Connected**. If the GUI displays **Not Connected**, ensure the flex PCB is properly connected and power-cycle the MAX30210 EV kit.

Detailed Description of Software

Software Startup

If the EV kit is connected when the software is opened, the software first initializes the hardware to communicate. The software then reads the device registers and updates all the associated control fields displayed on the GUI.

If the EV kit is not connected on start-up, the GUI starts and displays no devices in the **Devices** section of the GUI and no temperature reading in the **Selected Device** section. The status bar at the bottom of the GUI states **Not Connected**.

Once an EV kit is connected, the GUI automatically sets the device registers and begins taking temperature measurements.

ToolStrip Menu Bar

The **ToolStrip** menu bar (Figure 1) is located at the top of the GUI window. This bar comprises the **File**, **Device**, **Logging**, and **Help** menus, the functions of which are detailed in the following sections.

File Menu

The File menu contains the option to exit the GUI program.

Device Menu

The **Device** menu connects or disconnects an EV kit to the GUI. If a board is disconnected while the GUI is open, the GUI displays **Hardware Not Connected** in the lower right corner. If the device is then plugged back in, navigate to the **Device** menu and select **Connect**. If successful, the bottom right corner of the GUI reads **Device Connected**.

🔞 Digita	al Temp	erature Sen:	or (MAX30210) EV Kit Tool		_	ð	\times
File (Device	Logging	Help				

Figure 1. ToolStrip Menu Bar

Evaluates: MAX30210

Logging Menu

The **Logging** menu provides a way to export each data sample that is being measured by the device. The first logging option is **File Logging**. Selecting either log option opens a prompt asking to select a device to log data from. Next a prompt appears to allow to choose a name for the comma-separated value (CSV) log file, as well as the location to save the generated file. Figure 2 and Figure 3 show the GUI when creating a log file. The GUI disables file logging after one monitoring session and a new file must be generated through the **Logging** menu to log another dataset.

The second logging option is **MicroSD Logging**. MicroSD logging operates the EV kit without a connection to a host PC or power supply. First, insert a microSD card into the connector on the underside of the MAX32630.

After selecting the logging interval and writing the selection to the microSD card as shown in Figure 4, connect a 3.7V lithium-ion battery with a JST PH connector to the MAX32630FTHR and then disconnect the board from the host PC. Refer to the MAX32630FTHR documentation for details on connecting a Li+ battery. Press **SW2** to start saving measurements to the SD card. Pressing SW2 again stops measurements. To transfer the logged data from the MicroSD card to a file on a PC, reconnect the MAX30210 EV Kit to the PC and select microSD card logging from the **Logging** menu. Select the 'Save to File' option and a prompt appears to name the log file, see Figure 3. For subsequent logging 'screen to prevent multiple data sets being recorded to the same log file.

🐼 Select	Devices	- □ >	×
Selec	devices for file logg	ing. Select A	II
Selec	ted Address	Unique ID	
	0xA0	0x2D0000001995054	1
	Car	cel Start Logging	

Figure 2: Device Select Screen for Logging

Evaluates: MAX30210

3 Save As					>
\leftarrow \rightarrow \checkmark \uparrow 📜 \Rightarrow This PC \Rightarrow Desktop \Rightarrow MAX30210	Logging v	U		AX30210 Loggin	ng
Organize New folder					?
↑ Name	Da	ate modi	ified	Туре	
🗖 Desktop 🛛 🖈	No items match your	r search.			
🖊 Downloads 🖈					
🖆 Documents 🖈					
Network Pictures 🖈					
b Music					
📑 Videos					
OneDrive - Analo <u>c</u>					
🗢 This PC					
File name: MAX30210EVKit_2022-07-11_14-16-5	57				2
Save as type: CSV files (*.csv)					,
Ulde Feldere			Save	Cancel	

Figure 3: File Naming Screen for Logging

🔞 Setup Micro	SD Logging		- 0	×
Select devi	ices for MicroSF) logging	✓ Selec	et All
Selected	Addroce	l In		
		0v2D000	0001005054	_
Logging Inte	erval 1 Se Read	cond • d Settings	Write Setting:	S
MicroSD C	ard Status: Inse	rted	Check Statu	s
Clear Log o	on MicroSD		Clear Log	
Download I	_og from MicroS	D	Save to File	
			Close	

Figure 4: MicroSD Logging Prompt

Evaluates: MAX30210

Help Menu

The **Help** menu contains information to aid with any problems in the use of the GUI. The **About** option displays the GUI splash screen indicating the GUI version being used.

Tab Control

The main interface structure of the GUI consists of a tab control, where each tab controls various blocks of the device. A Change in these interactive controls triggers a write operation to the MAX30210 to update the contents of the registers. These controls are refreshed when reading from the device. The **Register Map** tab allows the user to read and write to individual registers.

General Tab

The **General** tab (Figure 5) displays a general overview of the MAX30210. The tab provides a list of devices connected, temperature data for a selected device, as well as controls for select registers.

		Search Read A	All Get Temperature
evices			Selected Device
ddress 0x80	Unique ID 0x0000000018CC	Temperature 22,560°C	IPC Address: 0x80 Selected Device: 0x000000018CC 22.560°C Device Status: Connected
			Selected Device Rate of Change Rate of Change Filter 2 · Samples
			Slope Increase Threshold 1275 m°C Set Slope Decrease Threshold 1275 m°C Set Increasing East Status: Alarm Not Triggered
			Decreasing Fast Status: Alarm Not Triggered Read
emperature Units and Samp	le Rate		Selected Device Alarms
Temperature Units			Alarm High Threshold 163.835 °C Set
Celsius			Alarm Low Threshold -163.840 °C Set
Fahrenheit			Alarm High Status: Alarm Not Triggered
Autonomous Mode SR	1 Second -		Alarm Low Status: Alarm Not Triggered Read

Figure 5: General Tab

Evaluates: MAX30210

Plots Tab

The **Plots** tab (Figure 6) provides a visual output of the MAX30210 temperature readings. From this tab, it is possible to select a duration, plot the data for the selected device, and save the plotted data to a log file. Plot duration

can be selected in the **Plot Time** and plotting begins when the **Start** button is clicked. Plotted data can be saved to a CSV file by selecting **Save Plot Data** once the plot time duration has surpassed and plotting has stopped.



Figure 6: Plots Tab

Evaluates: MAX30210

Register Map Tab

The **Register Map** tab (Figure 7) provides more direct access to the internal registers of the MAX30210. From this tab, read the contents of individual registers and manually enter the desired bit settings using a write operation. For the register address selected in the table on the left, the bit values are displayed at the bottom of the tab and visualized as bold or non-bold bit names. When a bit is

bold, its value is 1. Otherwise, the bit is 0. Full descriptions of each bit are available in the table on the right for quick reference. Pressing **Read** reads the selected register highlighted in teal. Pressing **Read All** reads all registers and updates their values in the **Register** tab. To write to a register, set the desired bit values by clicking on the bit names to make bold or non-bold and then press **Write**.

	Plots Register Map											
Regist	er Map										Read All	
Addr	Register	Value	Field	Name				0	Description			
x00	Status	0x42			PWR RDY is set to	1 when V <sub style<="" td=""><td>e="color:#000000</td><td>): font-family:arial. he</td><td>elvetica, sans-se</td><td>rif: font-style:normal</td><td>: font-variant-ligatures:normal:</td></sub>	e="color:#000000): font-family:arial. he	elvetica, sans-se	rif: font-style:normal	: font-variant-ligatures:normal:	
x02	Interrupt Enable	0x00			font-variant-caps:no	ont-variant-caps.normal; font-weight:400; letter-spacing.normal; orphans;]; text-align:start; text-indent:0px; text-framsform:none; white-space:normal; widows:2;						
x04	FIFO_Write_Pointer	0x00	Bit[0]	PWR RDY	word-spacing:0px; -	webkit-text-stroke-v	width:0px; backgr	ound-color:#ffffff; te:	d-decoration-st	le:initial; text-decora	tion-color:initial">DD goes below POR <font< td=""></font<>	
x05	FIFO_Read_Pointer	0x00			color= #4a4a4a >th	olor="#4a4a4a">threshold, which is nominally 1.42V. If this condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset to their POR state. This bit is not triggered by a soft condition occurs, all registers are reset. This is not triggered by a soft condition occurs, all registers are reset. This is not triggered by a soft condition occurs, all registers are reset. This is not triggered						
x06	FIFO_Counter_1	0x00			PWR_RDY is a non-maskable interrupt, so it gets asserted on INT pin.							
x07	FIFO_Counter_2	0x00										
x08	FIFO_Data	0xFF			TEMP_HI is asserte	d when the latest te	emperature senso	or measurement is g	eater than what	is programmed in th	e Temperature Sensor Alarm High (0x22, 0x23	
x09	FIFO_Configuration_1	0x1F	-		egister. This is a read-only bit. When this bit is asserted and if the TEMP_HI_EN bit is set to 1 then it asserts the interrupt on the INT pin. The master needs to							
x0A	FIFO_Configuration_2	0x02	Bit[2]	IEMP_HI	read the status regis	ad the status register to determine if the interrupt was asserted by the TEMP_H istatus.						
x11	SYSTEM_CONFIGURATION	0x00			Comparator mode	TEMP HI does not	clear on STATUS	register read but the	iterrupt are clea	s on STATUS regist	er read TEMP HI remains asserted until the	
x12	PIN_CONFIGURATION	0x04			latest temperature s	ensor measuremen	t goes lower than	what is programme	d in the Temper	ature Sensor Alarm I	Low (0x24, 0x25) register.	
x20	TEMP_ALARM_HIGH_SETUP	0x00					-				, .	
x21	TEMP_ALARM_LOW_SETUP	0x00	Di+[2]	TEMPLO	TEMP_LO is assert	ed when the latest f	temperature sens	or measurement is l	ess than what is	programmed in the	Temperature Sensor Alarm Low (0x24,0x25)	
x22	TEMP_ALARM_HIGH_MSB	0x7F	Diffol	TEMP_LO	register. This is a re	egister. This is a read-only bit and it is cleared after the STATUS register is read.						
x23	TEMP_ALARM_HIGH_LSB	0xFF			TEMP_LO is not use	ed when ALERT_M	ODE[7](0x29) is s	set for Comparator r	node.			
x24	TEMP_ALARM_LOW_MSB	0x80	Bit[4]	TEMP INC F	TEMP ING FLOT			The second se	the second sectors.	the second file for a discovered sec		
x25	TEMP_ALARM_LOW_LSB	0x00			TEMP_INC_FAST IS	s asserted when the	e temperature incr	eases too fast. This	is a read-only c	it and it is cleared a	rter the STATUS register is read.	
x26	TEMP_INC_FAST_THRESH	0xFF	Bit[5]	TEMP_DEC	TEMP DEC EAST	is assorted when th	o tomporaturo da	ereces too feet. Th	is is a read only	hit and it is alcored	offer the STATUS register is read	
x27	TEMP_DEC_FAST_THRESH	0xFF			TEINF_DEC_FAST	is asserted when th	le temperature de	creases too iast. If	is is a reau-only	bit and it is cleared	alter tile STATUS register is read.	
x28	TEMP_CONFIGURATION_1	0x08	Bit[6]	TEMP RDY TEMP RDY is asserted when a temperature sensor measurement has completed and new data is available to be read by the			e read by the master. This is a read-only bit an					
x29	TEMP_CONFIGURATION_2	0x06	Diffol		is cleared after the S	STATUS register is	read or after the	Temperature Data(0	x2B, 0x2C) regi	sters are read.		
x2A	TEMP_CONVERT	0x00			A FULL is set to 1 v	when the FIFO has	reached the thres	hold programmed in	the FIFO A FL	JLL[5:0](0x09). This	is a read-only bit. This bit is cleared when the	
x2B	TEMP_DATA_MSB	0x11	Bit[7]	A_FULL	Status Register is re	ead. It is also cleare	ed when FIFO_DA	ATA[7:0](0x08) regis	ter is read, if FI	O_STAT_CLR[3](0)	(0A) = 1.	
x2C	TEMP_DATA_LSB	0xB6		This is a read-only bit. This bit is cleared when the Interrupt Status 1 Register is read. It is also cleared when FIFO_DATA register							O_DATA register is read, if FIFO_STAT_CLR =	
	TEMP_SLOPE_MSB	0x00										
x2D	TEMP_SLOPE_LSB	0x03										
x2D x2E	UNIQUE_ID1	0xCC										
x2D x2E x30		0x18										
x2D x2E x30 x31	UNIQUE_ID2											
x2D x2E x30 x31 x32	UNIQUE_ID2 UNIQUE_ID3	0x00										
x2D x2E x30 x31 x32 x33	UNIQUE_ID2 UNIQUE_ID3 UNIQUE_ID4	0x00 0x00										
1x2D 1x2E 1x30 1x31 1x32 1x33 1x34	UNIQUE_ID2 UNIQUE_ID3 UNIQUE_ID4 UNIQUE_ID4	0x00 0x00 0x00										
x2D x2E x30 x31 x32 x33 x34 x34 x35	UNIQUE_ID2 UNIQUE_ID3 UNIQUE_ID4 UNIQUE_ID5 UNIQUE_ID6 DADT_UD6 DADT_UD6	0x00 0x00 0x00 0x00 0x00										
x2D x2E x30 x31 x32 x33 x34 x35 xFF	UNIQUE_ID2 UNIQUE_ID3 UNIQUE_ID4 UNIQUE_ID5 UNIQUE_ID5 UNIQUE_ID6 PART_IDENTIFIER	0x00 0x00 0x00 0x00 0x00 0x45										
x2D x2E x30 x31 x32 x33 x34 x35 xFF	UNIQUE_ID2 UNIQUE_ID3 UNIQUE_ID4 UNIQUE_ID4 UNIQUE_ID5 UNIQUE_ID6 PART_IDENTIFIER	0x00 0x00 0x00 0x00 0x00 0x45	7	6	5	4	3	2	1	0		
x2D x2E x30 x31 x32 x33 x33 x34 x35 xFF	UNIQUE_ID2 UNIQUE_ID3 UNIQUE_ID4 UNIQUE_ID4 UNIQUE_ID5 UNIQUE_ID6 PART_IDENTIFIER	0x00 0x00 0x00 0x00 0x45	7 A_FULL	6 TEMP_RDY	5 TEMP_DEC_FAS	4 TEMP_INC_FAST	3 TEMP_LO	2 TEMP_HI	1	0 PWR_RDY		

Figure 7: Register Map Tab

Evaluates: MAX30210

Detailed Description of Hardware

The MAX30210 EV kit provides a single platform to evaluate the functionality and features of the MAX30210. A list of all jumpers and their respective functions is available in Table 1.

Table 1. Description of Jumpers

JUMPER	DESCRIPTION
J3	Connect SCL to $4.7k\Omega$ pullup to VDD
J4	Connect SDA to $4.7k\Omega$ pullup to VDD
J5	Connect INTB to $4.7k\Omega$ pullup to VDD
J6	Connect VDD to MAX32630FTHR 1.8V

Component Suppliers

SUPPLIER	WEBSITE		
Analog Devices	www.analog.com		
Keystone	www.keyelco.com		
Molex	www.molex.com		
Murata	www.murata.com		
Panasonic	www.industrial.panasonic.com		
Sullins	www.sullinscorp.com		

Note: Indicates using the MAX30210 when contacting these component suppliers.

The EV kit utilizes the MAX32630FTHR Cortex-M4F Microcontroller for wearables to interface with the GUI and optionally provide power to the MAX30210. The MAX32630FTHR operates either from a host PC or directly from a Li+ battery. If an SD card is present in the MAX32630FTHR, pressing SW2 on the MAX32630FTHR initiates measurements and saves log files to the SD card. Logging is stopped by pressing SW2 a second time.

Powering the EV Kit

The MAX30210 EV kit is powered directly from the MAX32630FTHR through either a lithium-ion battery or a USB to Micro-USB cable. J5 must be connected to the 1.8V option in order to supply power from the MAX32630FTHR. J7 and J8 must each have a shunt connected to connect the serial data (SDA) and serial clock (SCL) lines from the MAX32630FTHR to the MAX30210 IC.

Ordering Information

PART	ТҮРЕ
MAX30210EVKIT#	EV Kit

#Denotes RoHS compliance.

MAX30210 EV Kit Bill of Materials

MAX30210 EV Kit Sensor Flex Bill of Materials

ITEM	REF_DES	DNI/DNP	QTY	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION		
1	C1	-	1	GRM033C81E104KE14	MURATA	0.1UF	CAP; SMT (0201); 0.1UF; 10%; 25V; X6S; CERAMIC		
2	111		1	MAY20210	ANALOG DEVICES MAX30210		EVKIT PART - IC; MAX30210; WLP9; PAC		EVKIT PART - IC; MAX30210; WLP9; PACKAGE
2	01	-	Т	WIAX50210			OUTLINE DRAWING:21-0486; PACKAGE CODE: W91D1+1		
3	PCB	-	1	MAX30210SENSORFLEX	ANALOG DEVICES	PCB	PCB:MAX30210SENSORFLEX		
4	11		0		MOLEY		CONNECTOR; FEMALE; SMT; FD19 SERIES;		
4	JI	DNP	U	5051100692_EDGE	IVIOLEX	5051100692_EDGE	RIGHT ANGLE; 6PINS;		
TOTAL			3						

MAX30210 EV Kit Interface Board Bill of Materials

ITEM	REF_DES	QTY	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION
1	CVT/PDB, GND,	6	5006	KEYSTONE	N/A	TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.35IN; BOARD HOLE=0.063IN; BLACK; PHOSPHOR BRONZE
	111, 302, 301, 700					WIRE SILVER PLATE FINISH;
2	11	1				CONNECTOR; FEMALE; THROUGH HOLE; LFB SERIES;
2	11	T	FFFCIOILI BIN-IKC	Soleins Electronics corr.	FFFCIOILI BIN-IC	2.54MM CONTACT CENTER; STRAIGHT; 16PINS
2	12	1				CONNECTOR; FEMALE; THROUGH HOLE;
3	JZ	JZ I FFFCIZI	PPPCIZILFDN-KC	SOLEINS ELECTRONICS CORP	FFFCIZILFBN-KC	HEADER FEMALE; STRAIGHT; 12PINS
						CONNECTOR; MALE; THROUGH HOLE;
4	J3-J6	4	GRPB021VWVN-RC	SULLINS ELECTRONICS CORP.	GRPB021VWVN-RC	0.050 SINGLE ROW MALE HEADER CONNECTOR;
						STRAIGHT; 2PINS; -40 DEGC TO +105 DEGC
E	10	1	E0E1100602	MOLEY	E0E1100602	CONNECTOR; FEMALE; SMT; FD19 SERIES;
5	13	1	5051100092	WIGLEX	5051100092	RIGHT ANGLE; 6PINS
6	R1-R3	3	ERJ-2RKF4701	PANASONIC	4.7K	RES; SMT (0402); 4.7K; 1%; +/-100PPM/DEGC; 0.1000W
7	PCB	1	MAX30210INTERFACE	ANALOG DEVICES	PCB	PCB:MAX30210INTERFACE
TOTAL		17				

MAX30210 EV Kit Schematic

MAX30210 EV Kit Sensor Flex Schematic



MAX30210 EV Kit Schematic (continued)

MAX30210 EV Kit Interface Board Schematic



MAX30210 EV Kit PCB Layout Diagrams

MAX30210 EV Kit Sensor Flex PCB Layout

i	Devices	MAX30210_SENSOR_FLEX_EVKIT_A 🛛 🖾

MAX30210 EV Kit Sensor Flex PCB Layout—Silk Top



MAX30210 EV Kit Sensor Flex PCB Layout—Top View



MAX30210 EV Kit Sensor Flex PCB Layout—Bottom View

MAX30210 EV Kit PCB Layout Diagrams (continued)

MAX30210 EV Kit Interface Board PCB Layout



MAX30210 EV Kit Interface Board PCB Layout—Silk Top



MAX30210 EV Kit Interface Board PCB Layout—Top View

MAX30210 EV Kit PCB Layout Diagrams (continued)

MAX30210 EV Kit Interface Board PCB Layout



MAX30210 EV Kit Interface Board PCB Layout—Bottom View



MAX30210 EV Kit Interface Board PCB Layout—Bottom Silkscreen

Evaluates: MAX30210

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	11/22	Initial release	_
1	4/24	Added a note at the end of Required Equipment. Replaced the Maxim link with the latest Analog product page link. Replaced 'Maxim' with 'Analog devices' in the BOM.	1, 2, 10



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