Evaluates: MAX31341B/MAX31341C

General Description

The MAX31341 Shield evaluation kit (EV kit) is a fully assembled and tested PCB to evaluate the MAX31341B and MAX31341C, low-cost, extremely accurate, real-time clocks (RTCs) with I²C interface and power management. The EV kit operates from a single supply, either from USB or an external power supply, and the onboard crystal provides a 32.768kHz clock signal. This device is accessed through an I²C serial interface provided by a MAX32625PICO board from a PC USB port.

The MAX31341 Shield EV kit provides the hardware and software user interface (GUI) necessary to evaluate the MAX31341B and MAX31341C. The EV kit includes a MAX31341B and a MAX31341C installed. It connects to the PC through a MAX32625 PICO board and a Micro USB cable.

Features

- Easy Evaluation of the MAX31341B and MAX31341C
- +1.6V to +3.6V Single-Supply Operation
- Proven PCB Layout
- Fully Assembled and Tested

EV Kit Contents

- Assembled MAX32625PICO I²C circuit board
- Micro USB cable
- Assembled circuit board, including the MAX31341B and MAX31341C

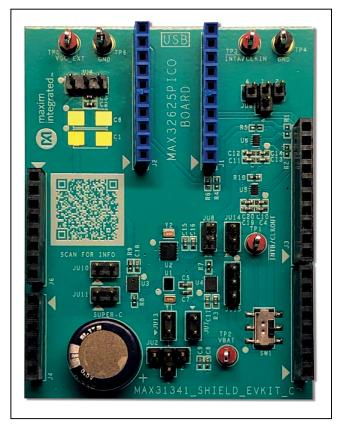
Ordering Information appears at end of data sheet.

Quick Start

Required Equipment

- One DC power supply capable of supplying +1.6V to +3.6V (typical +3.0V used in the following instructions)
- One pico ammeter for measuring the current
- One oscilloscope
- One Micro USB cable
- One assembled MAX32625PICO I²C circuit board
- One MAX31341 Shield EV kit

EV Kit Photo





Procedure

The EV kit is fully assembled and tested. Follow these steps to verify board operation.

- 1) Place the MAX31341 Shield EV kit on a nonconductive surface to ensure that nothing on the PCB gets shorted to the workspace.
- Set the jumpers to their default positions, as shown in <u>Figure 1a</u> for testing the WLP IC and <u>Figure 1b</u> for testing the TDFN IC.
- With the output of the power supply set to +3.0V and disabled, connect the positive terminal of the DC supply to the VCC_EXT and negative terminal to the GND of the EV kit.
- 4) Connect the MAX32625PICO I²C circuit board to the EV kit at the location shown as DS3900 (Figure 2).
- 5) Connect the Micro USB cable between the MAX32625PICO Board and PC/laptop.

- 6) Turn on the +3.0V DC power supply.
- Visit <u>here</u> to download the latest version of the MAX31341 RTC EV kit software, and run the control software.
- Open the MAX31341B/C RTC Shield software. The MAX31341B/C RTC Shield Software Configuration & Time tab will open, showing USB Connected (Figure 3) in the lower right corner.
- 9) At power-up, the MAX31341B/C is in idle mode; no clock is running yet. On the Configuration & Time tab, in the RTC Configuration section, enable Oscillator Enable to start the clock. Verify the clock has started counting by checking the Auto Update box in the Real Time Monitoring section.

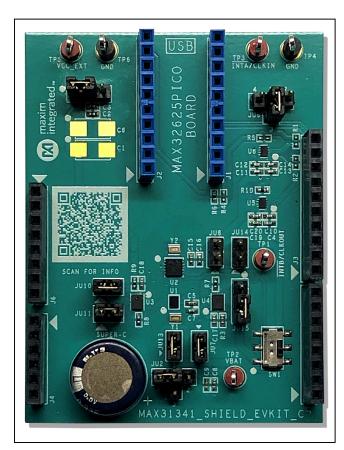


Figure 1a. WLP_Jumper Setting

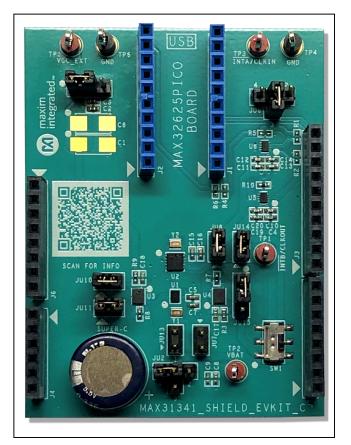


Figure 1b. TDFN_Jumper Setting

Evaluates: MAX31341B/MAX31341C

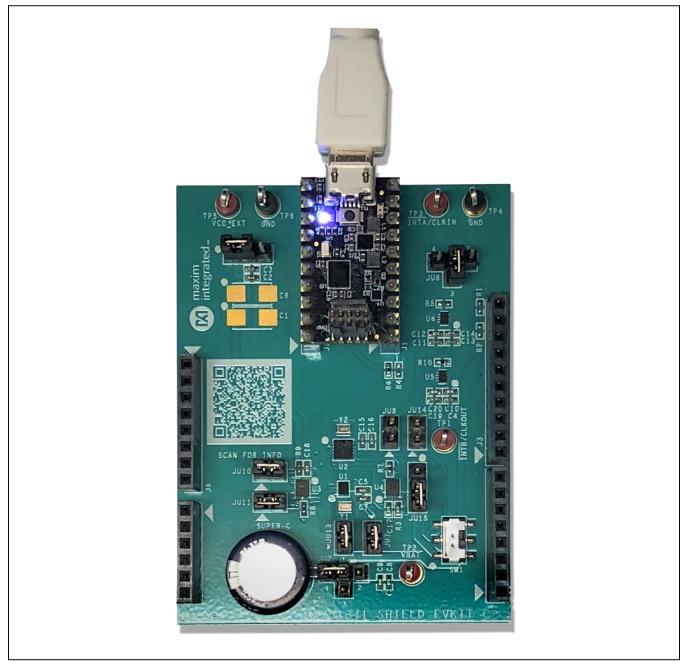


Figure 2. USB Connection

Detailed Description

The MAX31341B/MAX31341C low-current RTCs are timekeeping devices that provide time-keeping current in nanoamperes, thus extending battery life. The MAX31341B/ MAX31341C support 6pF high-ESR crystals, which broaden the pool of usable crystals for the devices. These devices are accessed through an I²C serial interface. The devices feature one digital Schmitt trigger input and one programmable threshold analog input. The devices generate an interrupt output on a falling or rising edge of the digital input (D1), or when the analog input (AIN) voltage crosses a programmed threshold in either direction. An integrated power-on reset function ensures deterministic default register status upon power-up.

Other features include two time-of-day alarms, interrupt outputs, a programmable square-wave output, a serial bus timeout mechanism, and a 64-byte RAM for user data storage. The clock/calendar provides seconds, minutes, hours, day, date, month, and year information. The date at the end of the month is automatically adjusted for months with fewer than 31 days, including corrections for leap year. The clock operates in 24-hour format. The MAX31341B/MAX31341C also include an input for synchronization. When a reference clock (e.g., 32kHz, 50Hz/60Hz power line, GPS 1PPS) is present at the CLKIN pin and the enable external clock input bit (ECLK) is set to 1, the MAX31341B/MAX31341C RTC is frequency-locked to the external clock and the clock accuracy is determined by the external source.

Functional Test Procedure

Current Draw at Time-Keeping Operation

- To measure the current draw under normal RTC conditions without any interrupt or clock input/output, do the following:
 - In the **RTC Configuration** section, press the **Read** button.
 - Disable CLKIN and CLKOUT.
 - Select 1Hz for Frequency.
- Remove the jumper from JU7 (for the MAX31341B) or JU8 (for the MAX31341C) and connect the pico ammeter between pins 1 and 2 of JU7 or JU8.
- 3) On the Registers tab (Figure 5), in the Register Map section, press the Read button and make sure that the value of register 0 (Config_reg1) shows 0x41. Otherwise, set it to 0x41 and press the Write button. Now the reading in the picometer is the current from the MAX31341B or MAX31341C only. It should be around 210nA.

Note: All instruments must be disconnected from the I/O ports of the IC, since any loading would add current consumption. Also, be sure that the waiting duration from power-up to the current reading is long enough (30min) due to on-board capacitor charging.

4) Remove the pico ammeter and put the jumper back on JU7 or JU8.

Setting the Clock

On the **Configuration & Time** tab in the **Date/Time Configuration** section, enter the start point of date and time, and then click **Set**. The clock starts to count from the set point after the **Status Log** shows **Write successful**. In the **Real Time Monitoring** section, verify that the clock is counting from the written start date and time.

Clock Output Measurement

On the **Configuration & Time** tab in the **RTC Configuration** section, enable **CLKOUT** and select the desired **CLKOUT Frequency**. The clock output can be monitored using an oscilloscope connected to INTB/ CLKOUT. A frequency counter can also be used to measure the clock frequency accurately.

Alarm Interrupt Output

On the Alarms & Timer tab in the Alarm 1 Configuration section, select the Repetition Rate to set the alarm scenario (such as Min, Sec at 02:00). In the Interrupts subsection of the Interrupts & Flags section, check the Alarm 1 Interrupt box. In the Flags subsection, press the Read button twice to clear the alarm flag bit if it has been previously set. When the RTC reaches the alarm time set in Alarm 1 Configuration, the alarm output at INTA/CLKIN will go from high to low. It will change to high again by pressing the Read button in the Flags subsection. The interrupt status can also be checked by pressing Read button in the Flags subsection. Repeat the same steps for Alarm 2, but measure the alarm interrupt output at INTB/CLKOUT.

Note: When testing alarm interrupts, CLKIN and CLKOUT in the RTC Configuration section need to be disabled.

Timer Interrupt

Clear all interrupt bits by pressing the **Read** button in the **Flags** subsection. Enable the Timer and Interrupt by checking **Timer Enable** in the **Timer Configuration** section and **Timer Interrupt** in the **Interrupts** subsection, then select **16Hz** on **Timer Frequency**. Set the **Timer Init** number such as 200. When the **Timer Count** reading reaches 0 from 200, the interrupt output at INTA/CLKIN should go from high to low.

Evaluates: MAX31341B/MAX31341C

Power Mode Select

On the **Configuration & Time** tab in the **Power Management** section, in the **Comparator Mode** dropdown list there are two options: **AIN Interrupt Mode** for normal I/O operation, and **Power Management & Trickle Charger** mode for Power Management and Trickle Charger mode which charges the on-board supercapacitor as a backup battery.

In **Power Management & Trickle Charger** mode, the **Supply Select** drop-down list can be used to select the source of the power supply. **Force VCC** means the IC

uses the main supply and **Force VBAT** means the IC gets the supply from the backup battery; from either source, the on-board supercapacitor or external backup supply is injected from the **TP2 (VBAT)** test point. In **Auto**, the supply switches between VCC and VBAT automatically based on the threshold set in the **Analog Interrupt** section. To verify which supply is utilized, the clock output can be monitored while changing the power-supply mode with VCC and VBAT in different voltages. Also, the supercapacitor voltage at **Analog IN** (JU2-AIN) can be charged to "VCC minus diode drop voltage" at a selectable rate in the pull-down table.

onfiguration & Time Alarms & Date/Time Configuration		RAM Power Management		Real Time Monitoring	
Day (Sun-Sat) Sunday (1)		Comparator Mode Power Mangement &	Trickle Charger 🔹	00:	00:00 th dd, yyyy
Hour (0-23) Min (0-59)	Sec (0-59)	Trickle Charger	ect 🔹	Interrupts & Flags	
Month (1-12) Date (1-31)	Year (0-199)	Supply Select	Power Fail Threshold	INTA	
Set	Read	Auto +	Read	Interrupts Alarm1 Interrupt	Flags Alarm 1
RTC Configuration)	Alarm2 Interrupt	Alarm 2
Oscillator Enable				AIN Interrupt	Timer Analog (AIN)
	CLKIN Frequency	1 Hz		D1 Interrupt	Digital (D1) OSF
Data Retention Soft Reset	50 Hz 60 Hz	 4.098 kHz 8.192 kHz 20.700 kHz 			Loss Of Signal
Son Reset	32.768 kHz	• 32.768 kHz	Read	Read	Read
us Log					
ldresses found: 0xD2 VX31341 I2C slave detected.					^
					Log To File

Figure 3. MAX31341B/C RTC Shield Software—Configuration & Time Tab

Evaluates: MAX31341B/MAX31341C

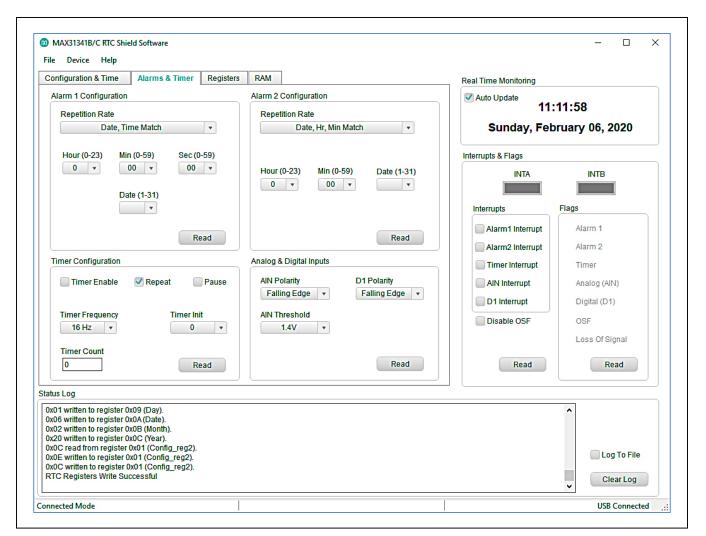


Figure 4. MAX31341B/C RTC Shield Software—Alarms & Timer Tab

Evaluates: MAX31341B/MAX31341C

nfiguration	& Time	Alarms & Timer F	Registers	RAM			Real Time Monitoring	
Re	gister Map						Auto Update	
	Addr	Reg Name	R/W	Value	Desel All	^	11	:15:46
	0x00	Config_reg1	R/W	0x41		1	Sunday, Fe	bruary 06, 2020
	0x01	Config_reg2	R/W	0x0C				-
	0x02	Int_polarity_config	R/W	0x00			Interrupts & Flags	
	0x03	Timer_config	R/W	0x07			INTA	INTB
	0x04	Int_en_reg	R/W	0x00				
	0x05	Int_status_reg	RC	0x00				
	0x06	Seconds	R/W	0x24			Interrupts	Flags
	0x07	Minutes	R/W	0x14	\checkmark		Alarm1 Interrupt	Alarm 1
	0x08	Hours	R/W	0x11			Alarm2 Interrupt	Alarm 2
	0x09	Day	R/W	0x01			Alarm2 Interrupt	AldIII 2
	0x0A	Date	R/W	0x06			Timer Interrupt	Timer
	0x0B	Month	R/W	0x02			AIN Interrupt	Analog (AIN)
	0x0C	Year	R/W	0x20			D1 Interrupt	Digital (D1)
	0x0D	Alm1_sec	R/W	0x00				
	0x0E	Alm1_min	R/W	0x00			Disable OSF	OSF
	0x0F	Alm1_hrs	R/W	0x00				Loss Of Signal
	0x10	Alm1day_date	R/W	0x00				
	0x11	Alm2_min	R/W	0x00		¥	Read	Read
is Log								
) (Alm1_sec). E (Alm1_min).						^
00 written to	register 0x0F	(Alm1_hrs).						
	register 0x10 register 0x11) (Alm1day_date). I (Alm2_min)						
00 written to	register 0x12	2 (Alm2_hrs).						Log To File
00 written to	reaister 0x13	3 (Alm2day_date).						

Figure 5. MAX31341B/C RTC Shield Software—Registers Tab

Evaluates: MAX31341B/MAX31341C

Jumper Settings for Testing WLP IC

JUMPER	SHUNT POSITION	DESCRIPTION						
	1–2	Connects AIN to VBAT at TP2.						
JU2	1–3	Connects AIN to GND.						
	1–4*	Connects AIN to supercapacitor.						
JU4	1–2*	System V _{CC} ** is powered by VCC_EXT at TP5.						
JU4	2–3	System V _{CC} is powered by +3.3V supply from Mbed/Arduino/PICO platform.						
	1–2	Connects INTA/CLKIN pin of U1 to ground.						
JU6	1–3*	Connects INTA/CLKIN pin of U1 to Mbed/Arduino/PICO platform, through a level translator (U5).						
	1–4	Connects $\overline{INTA}/CLKIN$ pin of U1 to test point TP3 with a 10k Ω pullup resistor to system V _{CC} .						
	1–2*	System V _{CC} connects to VCC pin of U1.						
JU7	OPEN	Float VCC pin of U1. Connect an ammeter between pin1 and 2 to measure the current consumption of U1.						
	1–2	System V _{CC} powers U2 V _{CC} pin.						
JU8	OPEN*	Floats VCC pin of U2. Connect an ammeter between the pins of JU8 to measure the current consumption of U2.						
JU10	1–2*	Connects SDA pin of U1 and U2 to Mbed/Arduino/PICO platform for GUI control.						
JU10	OPEN	Floats SDA pin for users' own I ² C control.						
JU11	1–2*	Connects SCL pin of U1 and U2 to Mbed/Arduino/PICO platform for GUI control.						
JUII	OPEN	Floats SCL pin for users' own I ² C control.						
JU13	1–2*	Connects power backup selection AIN at JU2 to AIN pin of U1.						
3013	OPEN	Floats AIN pin of U1 for users' signal input.						
JU14	1–2	Connects power backup selection AIN at JU2 to AIN pin of U2.						
JU14	OPEN*	Floats AIN pin of U2 for users' signal input.						
JU15	1–2	U2						
3013	2–3*	U1						

* Default position ** System V_{CC} is labeled VCC on the PCB.

Evaluates: MAX31341B/MAX31341C

Jumper Settings for Testing TDFN IC

JUMPER	SHUNT POSITION	DESCRIPTION
	1–2	Connects AIN to VBAT at TP2.
JU2	1–3	Connects AIN to GND.
	1–4*	Connects AIN to supercapacitor.
JU4	1–2*	System V _{CC} ^{**} is powered by VCC_EXT at TP5.
JU4	2–3	System V _{CC} powered by +3.3V supply from Mbed/Arduino/PICO platform.
	1–2	Connects INTA/CLKIN pin of U2 to ground.
JU6	1–3*	Connects INTA/CLKIN pin of U2 to Mbed/Arduino/PICO platform through a level translator (U5).
	1–4	Connects $\overline{\text{INTA}}/\text{CLKIN}$ pin of U2 to test point TP3 with a 10k Ω pullup resistor to system V_CC.
	1–2	System V _{CC} connects to VCC pin of U1.
JU7	OPEN*	Float VCC pin of U1. Connect an ammeter between pin1 and 2 to measure the current consumption of U1.
	1–2*	System V _{CC} powers U2 V _{CC} pin.
JU8	OPEN	Floats VCC pin of U2. Connect an ammeter between the pins of JU8 to measure the current consumption of U2.
JU10	1–2*	Connects SDA pin of U2 to Mbed/Arduino/PICO platform for GUI control.
3010	OPEN	Floats SDA pin for users' own I ² C control.
JU11	1–2*	Connects SCL pin of U2 to Mbed/Arduino/PICO platform for GUI control.
3011	OPEN	Floats SCL pin for users' own I ² C control.
JU13	1–2	Connects power backup selection AIN at JU2 to AIN pin of U1.
3013	OPEN*	Floats AIN pin of U1 for users' signal input.
JU14	1–2*	Connects power backup selection AIN at JU2 to AIN pin of U2.
3014	OPEN	Floats AIN pin of U2 for users' signal input.
JU15	1–2*	U2
3013	2–3	U1

* Default position ** System V_{CC} is labeled VCC on the PCB.

Component Suppliers

SUPPLIER	WEBSITE
Murata	http://www.murata.com/
Yageo	http://www.yageo.com/
Eaton	http://www.eaton.com/
Amphenol FCI	http://www.fci.com/
Samtec	https://www.samtec.com/
TE Connectivity	http://www.te.com/usa-en/home.html
Keystone Electronics	http://www.keyelco.com/
ECS	https://www.ecsxtal.com/
ON Semiconductor	http://www.onsemi.com/

Note: Indicate that you are using the MAX31341 when contacting these component suppliers.

Ordering Information

PART NUMBER	ТҮРЕ	
MAX31341SHLD#	EV Kit	

#Denotes RoHS compliant.

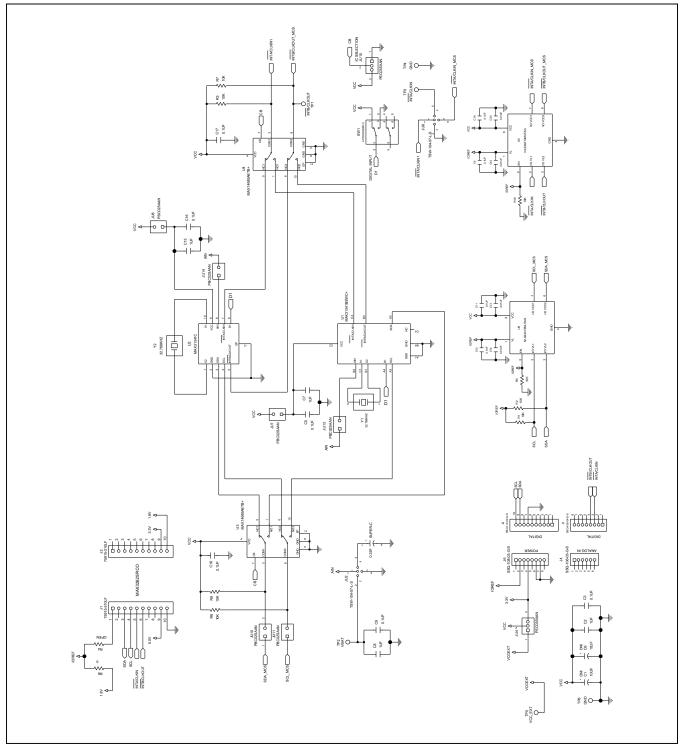
MAX31341 Shield EV Kit Bill of Materials

ITEM	REF_DES	DNI/DNP	QTY	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION
1	C2, C7, C8, C15	-	4	CL05B105KQ5NQNC; GRM155R70J105KA12	SAMSUNG ELECTRONICS; MURATA	1µF	CAPACITOR; SMT (0402); CERAMIC CHIP; 1µF; 6.3V; TOL = 10%; TG = -55°C TO +125°C; TC = X7R
2	C3, C5, C9, C16-C18	-	6	CL05B104KQ5NNN	SAMSUNG	0.1µF	CAP; SMT (0402); 0.1µF; 10%; 6.3V; X7R; CERAMIC CHIP ;
3	C4, C11, C13, C19	_	4	C1005X7R1C104K050BC; ATC530L104KT16; 0402YC104KAT2A; CGA2B1X7R1C104K050BC; GCM155R71C104KA55; C0402X7R160-104KNE; CL05B104K05NNNC; GRM155R71C104K38; C1005X7R1C104K; CC0402KRX7R7BB104; EMK105B7104KV; CL05B104KO5	TDK;AMERICAN TECHNICAL CERAMICS; AVK;TDK;MURATA; VENKEL LTD.;SAMSUNG ELECTRONICS; MURATA; TDK; YAGEO PHICOMP; TAIYO YUDEN; SAMSUNG ELECTRONICS	0.1µF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1µF; 16V; TOL = 10%; TG = -55°C TO +125°C; TC = X7R
4	C10, C12, C14, C20	-	4	C0402C103J3RAC	KEMET	0.01µF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01µF; 25V; TOL = 5%; TG = -55°C TO +125°C; TC = X7R
5	J1, J2	-	2	75915-310LF	FCI CONNECT	75915-310LF	CONNECTOR; FEMALE; THROUGH HOLE; STRAIGHT; 10PINS
6	J3	_	1	SSQ-110-04-G-S	SAMTEC	SSQ-110-04-G-S	CONNECTOR; FEMALE; THROUGH HOLE; .025IN SQ POST SOCKET; STRAIGHT; 10PINS ;
7	J4	-	1	SSQ-106-03-G-S	SAMTEC	SSQ-106-03-G-S	CONNECTOR; MALE; THROUGH HOLE; THROUGH-HOLE .025 SQ POST SOCKET ; STRAIGHT; 6PINS

Evaluates: MAX31341B/MAX31341C

ITEM	REF_DES	DNI/DNP	QTY	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION	
8	J6	-	1	SSQ-108-03-G-S	SAMTEC	SSQ-108-03-G-S	CONNECTOR; FEMALE; THROUGH HOLE; .025IN SQ POST SOCKET; STRAIGHT; 8PINS	
9	J7	_	1	SSQ-108-04-G-S	SAMTEC	SSQ-108-04-G-S	CONNECTOR; FEMALE; THROUGH HOLE; .025IN SQ POST SOCKET; STRAIGHT; 8PINS ;	
10	JU2, JU6	_	2	TSW-104-07-L-S	SAMTEC	TSW-104-07-L-S	EVKIT PART-CONNECTOR; MALE; THROUGH HOLE; TSW SERIES; SINGLE ROW; STRAIGHT; 4PINS	
11	JU4, JU15	_	2	PEC03SAAN	SULLINS	PEC03SAAN	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 3PINS	
12	JU7, JU8, JU10, JU11, JU13, JU14	-	6	PBC02SAAN	SULLINS ELECTRONICS CORP.	PBC02SAAN	EVKIT PART-CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 2PINS; -65°C TO +125°C;	
13	R3, R7-R9	_	4	CRCW040210K0FK; RC0402FR-0710KL	VISHAY DALE; YAGEO PHICOMP	10K	RESISTOR; 0402; 10K; 1%; 100PPM; 0.0625W; THICK FILM	
14	R6	_	1	RC0402JR-070RL; CR0402-16W-000RJT	YAGEO PHYCOMP; VENKEL LTD.	0	RESISTOR; 0402; 0Ω; 5%; JUMPER; 0.063W; THICK FILM	
15	R10	_	1	ERJ-2GEJ103	PANASONIC	10K	RESISTOR; 0402; 10KΩ; 5%; 200PPM; 0.10W; THICK FILM	
16	SUPER-C	_	1	KW-5R5C334-R	EATON POWERING BUSINESS WORLDWIDE	0.33F	CAP; THROUGH HOLE-RADIAL LEAD; 0.33F; +80%/-20%; 5.5V; ALUMINUM-ELECTROLYTIC ;	
17	SW1	_	1	AYZ0202AGRLC	C&K COMPONENTS	AYZ0202AGRLC	SWITCH; DPDT; SMT; 12V; 0.1A; MINIATURE SLIDE SWITCHES; RCOIL = 0.08 Ω ; RINSULATION=100M OHM	
18	TP1-TP3, TP5	_	4	5010	KEYSTONE	N/A	TEST POINT; PIN DIA = 0.125IN; TOTAL LENGTH = 0.445IN; BOARD HOLE = 0.063IN; RED; PHOSPHOR BRONZE WIRE SIL;	
19	TP4, TP6	_	2	5011	KEYSTONE	N/A	TEST POINT; PIN DIA = 0.125IN; TOTAL LENGTH = 0.445IN; BOARD HOLE = 0.063IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	
20	U1	_	1	MAX31341BEWC+	MAXIM	MAX31341BEWC+	IC; RTC; LOW-CURRENT; REAL-TIME CLOCK WITH I2C INTERFACE AND POWER MANAGEMENT; WLP12 ;	
21	U2	_	1	MAX31341C	MAXIM	MAX31341C	EVKIT PART - IC; MAX31341C; PACKAGE OUTLINE DRAWING: 21-0137; LAND PATTERN DRAWING: 90-0061	
22	U3, U4	_	2	MAX14689AETB+	MAXIM	MAX14689AETB+	IC; ASW; ULTRA-SMALL LOW-RON BEYOND-THE-RAILS DPDT ANALOG SWITCHES; TDFN10-EP	
23	U5, U6	_	2	NLSX4373MUTAG	ON SEMICONDUCTOR	NLSX4373MUTAG	IC; TRANS; 2-BIT 20 MB/S DUAL-SUPPLY LEVEL TRANSLATOR; UDFN8	
24	Y1, Y2	_	2	ECS327-6-12	ECS INC	32.768KHZ	CRYSTAL; SMT 2.0 MM X 1.2 MM; 6PF; 32.768KHZ; ±20PPM; -0.03PPM/°C2	
25	PCB	_	1	MAX31341SHIELD	MAXIM	PCB	PCB:MAX31341SHIELD	
26	C1, C6	DNP	0	TAJC106K016RNJ	AVX	10µF	CAPACITOR; SMT (6032); TANTALUM CHIP; $10\mu F;$ $16V;$ TOL = $10\%;$ MODEL = TAJ SERIES; TG = -55°C TO +125°C	
27	R1, R2, R5	DNP	0	ERJ-2GEJ103	PANASONIC	10K	RESISTOR; 0402; 10KΩ; 5%; 200PPM; 0.10W; THICK FILM	
28	R4	DNP	0	N/A	N/A	OPEN	PACKAGE OUTLINE 0402 RESISTOR	
TOTAL			57					

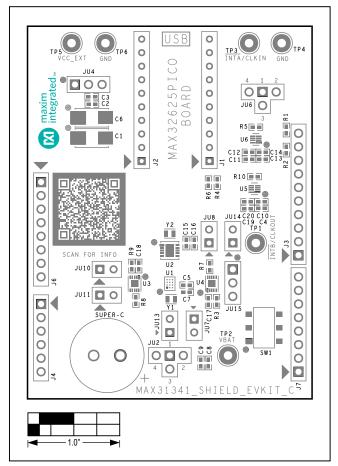
MAX31341 Shield EV Kit Bill of Materials (continued)



MAX31341 Shield EV Kit Schematic Diagram

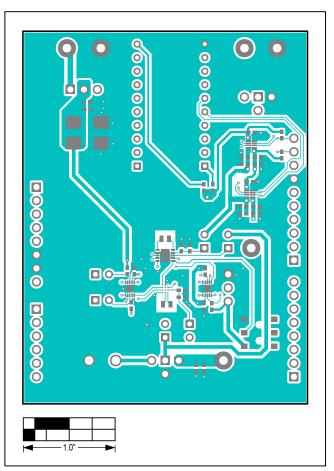
Figure 6. MAX31341 Shield EV Kit Schematic

Evaluates: MAX31341B/MAX31341C



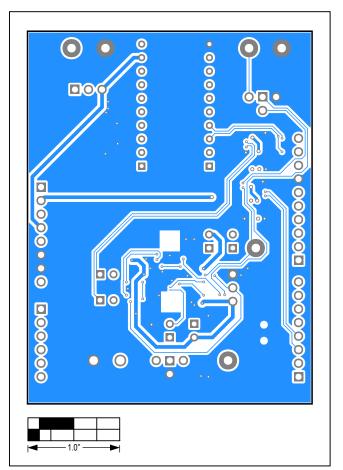
MAX31341 Shield EV Kit PCB Layout Diagrams

MAX31341 Shield EV Kit—Assembly Top



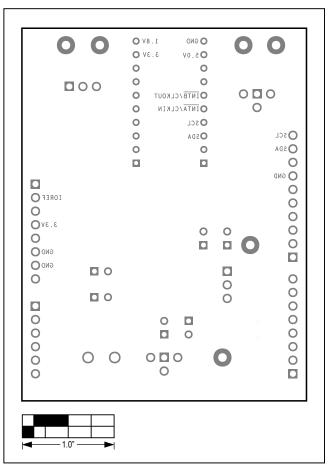
MAX31341 Shield EV Kit—PCB Top Layer

Evaluates: MAX31341B/MAX31341C



MAX31341 Shield EV Kit PCB Layout Diagrams (continued)

MAX31341 Shield EV Kit—PCB Bottom Layer



MAX31341 Shield EV Kit—PCB Bottom Silkscreen

Evaluates: MAX31341B/MAX31341C

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	1/18	Initial release	—
1	2/19	Updated data sheet figures, BOM, and PCB layout diagrams	1–12
2	3/19	Updated title to include MAX31341B, updated BOM and schematic	1–12
3	5/19	Updated Procedure section and added Jumper Settings table	2, 8
4	4/20	Updated throughout to add Shield and MAX31341C; updated all sections, figures, tables, BOM, schematic, and layout diagrams	1–12

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