

MAX20356 Evaluation Kit

General Description

The MAX20356 evaluation kit (EV kit) is a fully assembled and tested circuit for evaluating the MAX20356 power-management solution designed for ultra-low-power wearable applications.

A flexible set of power-optimized voltage regulators, including 3 x buck converters, a buck-boost converter, 4 x linear regulators, including an RTC LDO, and 3 x load switches, provide a high level of integration and the ability to create a fully optimized power architecture. Refer to the MAX20356 $\,$ IC data sheet for detailed information regarding the operation and features of the devices.

The device is configurable through an I²C interface that allows for programming various functions and reading device status. The EV kit GUI application sends commands to the MAXPICO2PMB# adapter board to configure the device.

The EV kit comes standard with the MAX20356 EV kit version IC installed.

Features

- USB-Power Option
- Flexible Configuration
- On-Board Battery Simulation
- Sense Test Point for Output-Voltage Measurement
- Windows® 8/Windows 10-Compatible Graphical User Interface (GUI) Software
- Fully Assembled and Tested

EV KIT Contents

- MAX20356_EVKIT_A System
- MAXPICO2PMB# board
- Two USB A to USB micro-B cables

MAX20356 EV Kit Files

FILE	DESCRIPTION
MAX20356EVKitSetupVxxx.exe	PC GUI Program

Ordering Information appears at end of data sheet.

Quick Start

Required Equipment

- MAX20356 EV kit
- Windows PC with USB ports
- One USB A-to-USB Micro-B cable and PICO2PMB adapter board with the latest firmware
- One USB A-to-USB Micro-B cable or power supply (for battery simulation or battery voltage)
- One USB A-to-USB Micro-B cable or power supply (for charger)
- One voltmeter

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 which is **bold and underlined** refers to items from the Windows operating system.

Procedure

The EV kit is fully assembled and tested. Follow the steps to install the EV kit software, make required hardware connections, and start operation of the kit.

- Visit <u>www.maximintegrated/evkitsoftware</u> under the Tools and Simulations tab to download the latest version of the MAX20356 EV kit software. MAX20356EVKitSetupVxxx.zip is located on the MAX20356 EV kit web page. Save the software to a temporary folder and unpack the zip file.
- Install the EV kit software on the computer by running the MAX20356EVKitSetupVxxx.exe program inside the temporary folder. This copies the program files and creates an icon in the Windows <u>Start</u> menu. The software requires the .NET Framework 4.5 or later. If connected to the internet, Windows automatically updates the .NET Framework as needed.
- 3. The EV kit software launches automatically after installation, and it can be launched by clicking on its icon in the Windows **Start** menu.
- 4. Verify that all jumpers are in their default positions, as shown in *Table 1*.
- Make sure JP7 and JP20 are not installed until all connections have been verified.
- 6. Connect the type-A end of a cable to the PC and the micro-USB end of a cable to the MAXPICO2PMB# board, and connect the MAXPICO2PMB# to J3 located on the top left of the EV kit board.

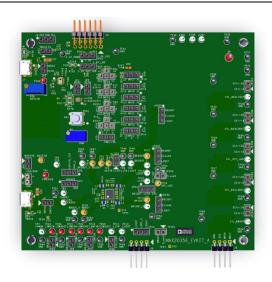
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- Connect a USB A to micro-B cable from the computer to J7 on the upper left corner of the EV kit board to use VBUS2 to power the battery simulation circuits on the board.
- 8. Reinstall JP7 and JP20.
- Use a voltmeter to check VSIM test point is approximately 5V; BATSIM test point is approximately 3.7V. To adjust the BATSIM voltage, connect DMM to BATSIM TP and turn the R58 BATSIM potentiometer.
- 10. On the computer, open the MAX20356 GUI. The status bar at the bottom shows **MAX20356 Not Found**, as shown in *Figure 1*. The IC is in Seal mode.
- 11. Set DMM to measure voltage and connect the positive lead to TP6, SYS and ground lead to any GND TP.

- 12. Hold PFN1 button for ~4s to power on the device and measure VSYS
 - ~ 3.7V
- 13. The MAX20356EVKIT should be powered on, and the status of the EV kit Tool now shows **Connected**, and the registers are read and displayed *Figure 2*.
- 14. The EV kit is now ready for additional evaluation.
- 15. To evaluate the battery charger, shunt J4 and plug in the USB micro-B cable to J1 of the EV kit to use USB VBUS power, or externally supply the charging power on TP4 CHGIN.

MAX20356 EV Kit Photo



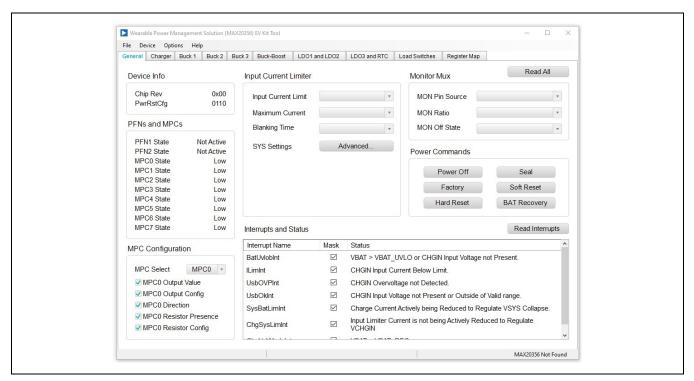


Figure 1. MAX20356 Not Found Status

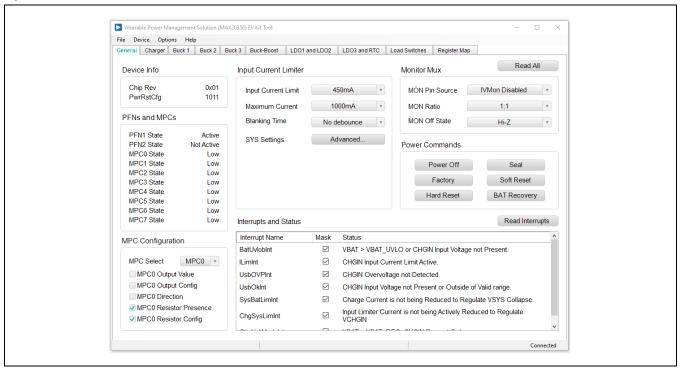


Figure 2. Connected Status

Detailed Description of Software

Software Startup

Upon starting the program, the EV kit software automatically searches for the USB interface circuit and then for the IC device addresses. The EV kit enters the normal operating mode when the connection is established and addresses are found. If the USB connection is not detected, the status bar displays **Not Connected**. If the USB connection is detected, but the MAX20356 is not found, the status bar shows **MAX20356 Not Found**.

ToolStrip Menu Bar

The **ToolStrip** menu bar (*Figure 3*) is located at the top of the GUI window. This bar comprises **File**, **Device**, **Options**, and **Help** menus; each function is detailed in the following sections.

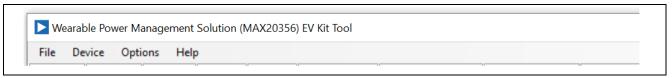


Figure 3. The ToolStrip Menu Items

File Menu

The **File** menu contains the option to exit out of the GUI program.

Device Menu

The **Device** menu provides the ability to connect or disconnect the EV kit to the GUI. The **Advanced** \rightarrow **I2C Read/Write** menu allows the user to read from or write to a selected register with a specified slave address. The **Advanced** \rightarrow **Use USB2PMB2#** option should be checked if using with the USB2PMB2# adapter board.

Options Menu

The **Options** menu provides several settings to access additional features offered by the GUI. The **Disable Polling** option allows registers to be read manually instead of receiving automatic frequent register updates from the IC. The **Lock/Unlock** option allows for the lock or unlock of the bucks, buck-boost, LDOs, LSWs, charger, watchdog, and rail sequence through I²C.

Help Menu

The **Help** menu contains the **About** option, which displays the GUI splash screen indicative of the GUI version being used.

Tab Controls

The MAX20356 EV kit software GUI provides a convenient way to test the features of the MAX20356. Each tab contains controls relevant to various blocks of the device. Changing these interactive controls triggers a write operation to the MAX20356 to update the register contents. The **Read All** button reads all the configuration registers that are visible on the current tab page. The **Interrupts and Status** section in each tab shows the state of the status registers and their corresponding interrupts. Checking or unchecking the **Mask** option controls which interrupts cause the <u>INT</u> output to be pulled low when asserted.

Click the **Read Interrupts** button to read and clear the interrupts visible in the current tab. Asserted interrupts are denoted by bold text in the **Interrupt Name**. All statuses are polled continuously. The polling feature can be disabled in the **Options** section of the menu bar by selecting **Disable Polling**.

General Tab

The **General** tab (<u>Figure 4</u>) provides information on device info, PFNs and MPCs status, and configuration. Charger input current and voltage limit setting, IVMON setting, power commands, and some general interrupts and status are also found under this tab.

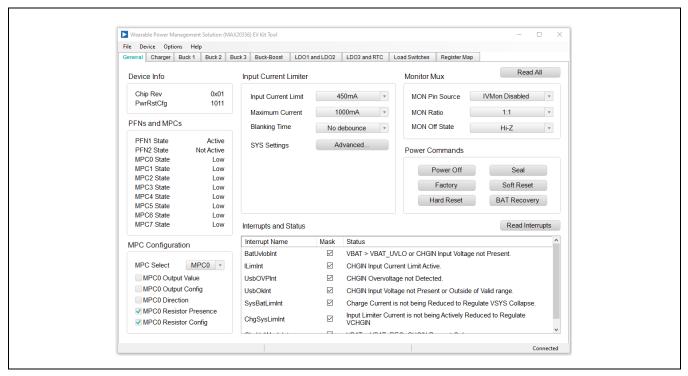


Figure 4. General Tab

Charger Tab

The **Charger** tab (<u>Figure 5</u>) provides options to set charger voltage, current, and timer in different charging states. The thermistor monitor configuration can be accessed by clicking the **Advanced** button.

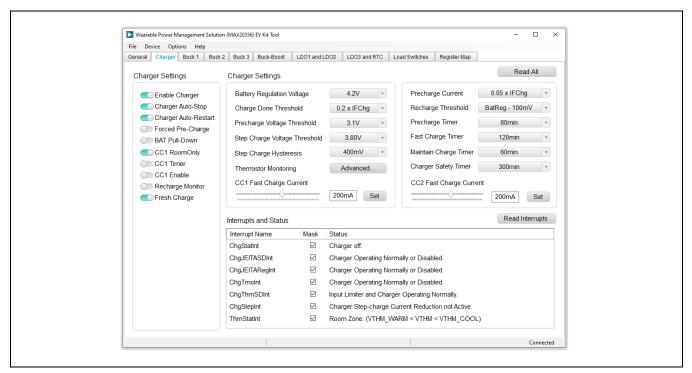


Figure 5. Charger Tab

Buck1/2/3, Buck-Boost Tab

The **Buck1**, **Buck2**, **Buck3**, and **Buck-Boost** tabs (<u>Figure 6</u>, <u>Figure 7</u>, <u>Figure 8</u> and <u>Figure 9</u>) provide options to enable buck/buck-boost, set output voltages, inductor current settings, DVS mode, voltage setting, and some additional settings.

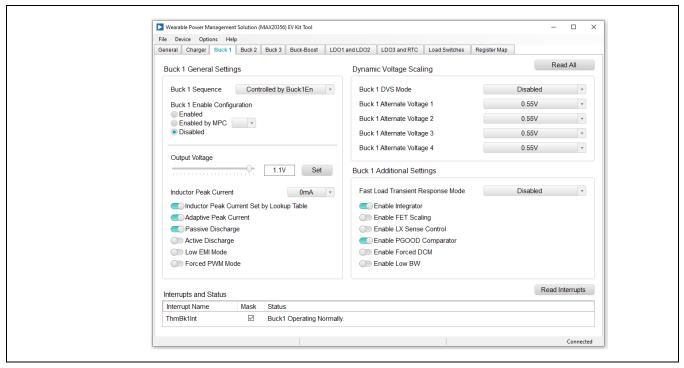


Figure 6. Buck1 Tab

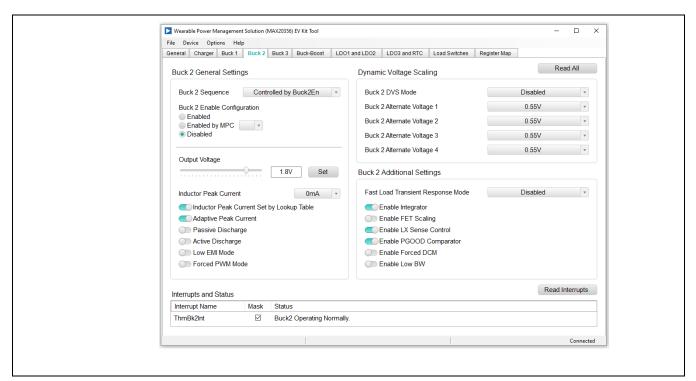


Figure 7. Buck2 Tab

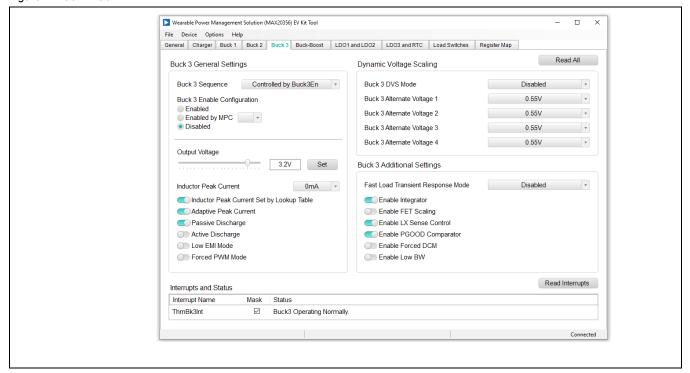


Figure 8. Buck3 Tab

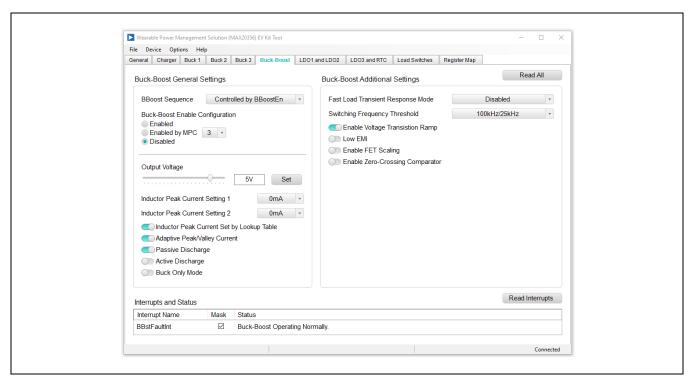


Figure 9. Buck-Boost Tab

LDO1/2/3 and RTC LDO Tab

The **LDO1 and LDO2**, and **LDO3 and RTC** (*Figure 10* and *Figure 11*) provide options to enable LDOs, set LDO voltage, and change other LDO settings.

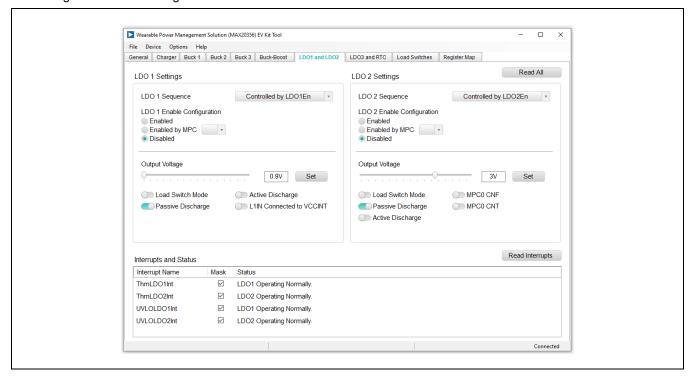


Figure 10. LDO1 and LDO2 Tab

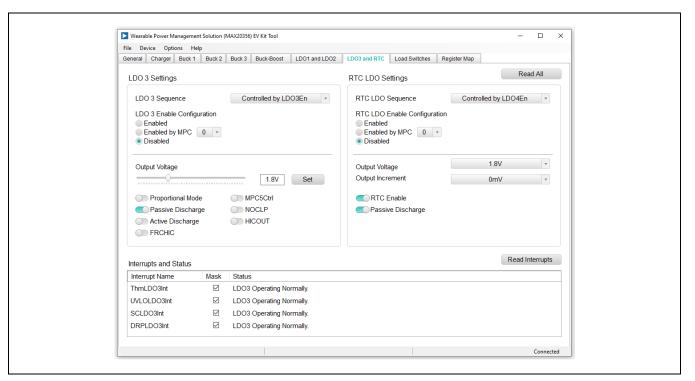


Figure 11. LDO3 and RTC Tab

Load Switches Tab

The **Load Switches** tab (*Figure 12*) includes Load Switch 1, Load Switch 2, and Load Switch 3 settings.

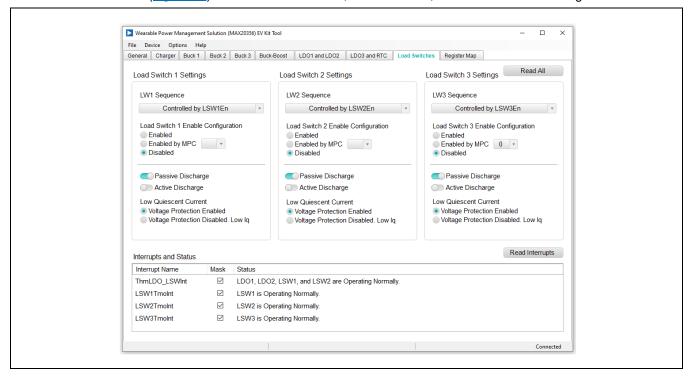


Figure 12. Load Switches Tab

Register Map Tab

The **Register Map** tab (*Figure 13*) provides all names and values of the MAX20356 registers. Click **Read All** in the top right corner to perform a burst read of all registers.

The left table shows the register to be read from and written to. The right table contains descriptions for each register field of the selected 8-bit register. All bits, along with their field names, are displayed at the bottom of the page.

To set a bit, click the bit label. **Bold** text represents logic 1, and regular text represents logic 0. To configure the changes to the device, click the **Write** button at the bottom right.

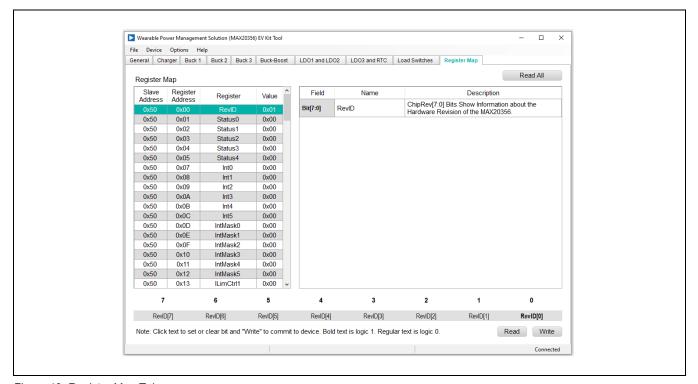


Figure 13. Register Map Tab

Detailed Description of Hardware

The MAX20356 EV kit evaluates the MAX20356 ultra-low-power wearable PMIC, which communicates over the I²C interface. The EV kit demonstrates the IC features such as bucks, buck-boost, linear regulators, load switches, and a battery charger. The EV kit uses the IC in a 63-bump wafer-level package on a proven, six-layer PCB design. The EV kit can use USB VBUS 5V DC for battery and charger input power source. Alternatively, the EV kit can be powered from an external power supply. *Figure 14* shows the EV kit block annotated picture.

Hardware Setup

To use the EV kit with the EV kit software, connect the MAXPICO2PMB# to the PMOD connector in the top left corner of the board. The MAXPICO2PMB# also provides 3.3V to the logic voltage VIO of the EV kit when shunting 1-2 in a JP20. The user can use the J7 USB VBUS to power the battery simulation circuits on the EV kit to supply the BAT of the IC. Turning the R58 potentiometer can change the BATSIM voltage. Connect BATSIM to the BAT of the IC with a shunt on JP9. Alternatively, instead of using battery simulation circuits on the board, the user can connect a Li-ion battery to the J2 connector. The user can use the J1 USB VBUS as a CHGIN source and place a shunt on J4.

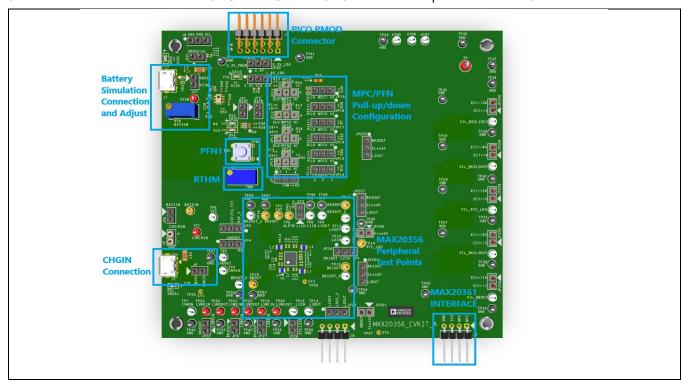


Figure 14. MAX20356 EV Kit Block Annotated Picture

PFNs and MPCs States

The PFNs and MPCs can be pulled up or pulled low to VIO through a $100k\Omega$ resistor or connected to the ground through a $100k\Omega$ resistor.

Regulators and Peripherals

All regulator outputs are made available on test points. The inputs to the LDOs and Load Switches can be supplied through setting the corresponding jumper for L_IN (JP25, JP24, and JP26) and LSW_IN (JP27, JP8, and JP22) or externally supplied through test points. The LDO1 input can be supplied from the V_{CCINT} of the IC if set through the I²C (bit LDO1IntSup). The bucks and buck-boost outputs have sense test points, which provide easy voltage measurement.

Thermistor setup

There are two configurations to set the desired thermistor voltage level. The thermistor pin has a $10k\Omega$ internal pullup.

To position the thermistor in the room zone, set the DMM to measure Ω and connect the positive lead to pin1 of JP3. Turn the THM POT until the DMM reads ~10k Ω .

Remove the DMM and install a shunt in position 1-2 of JP3. The register map should report that the thermistor is in the room temperature zone.

There is also a $10k\Omega$ fixed resistor by positioning the JP3 shunt to 2-3. This setting will put the thermistor in the room temperature zone.

INT and RST LED Indicators

Shunts can be installed on JP1 and JP2 to show the status of $\overline{\text{INT}}$ and $\overline{\text{RST}}$ as LED indicators, DS2 and DS3. When the corresponding LED illuminates, it verifies the active-low output is pulled low.

Jumper Setting

<u>Table 1</u> shows the detailed jumper setting, and <u>Table 2</u> shows the connector description.

Table 1. Jumper Table

JUMPER	SHUNT POSITION	MAX20356 DESCRIPTION							
JP1	1-2*	INT connect to pull up VIO and DS2							
JP2	1-2*	RST connect to pull up VIO and DS3 THM connect to potentiometer							
IDS	1-2*	THM connect to potentiometer							
JP3	2-3	THM connect to 10kΩ							
ID4	1-2*	Connects CHGOUT to CSN/RSN							
JP4 -	2-3	Connects CHGOUT to RSP							
JP5	1-2	Connects CSP/FT_TST to RSP_S							
	2-3*	Connects CSP/FT_TST to CSN/RSN							
JP6	1-2*	Connects VIO to PMOD 3.3V							
JPO	1-3	Connects VIO to 1.8V_LDO							
JP7	1-2*	Connects VBUS2 to VSIM							
JP8	1-2	Connects BK3OUT to LSW2IN							
JP9	1-2*	Connects BATSIM to CSN/RSN							
	1-2	PFN1 pull down to ground							
JP10	1-3	PFN1 connect to GPIO1							
	1-4	PFN1 pull up to VIO							
	1-2	PFN2 pull down to ground							
JP11	1-3	PFN2 connect to GPIO1							
	1-4	PFN2 pull up to VIO							
	1-2	MPC0 pull down to ground							
JP12	1-3	MPC0 connect to GPIO1							
	1-4	MPC0 pull up to VIO							
JP13	1-2	MPC1 pull down to ground							
JFIS	1-3	MPC1 connect to GPIO1							

	1	MD04 # 4 M0				
	1-4	MPC1 pull up to VIO				
JP14	1-2	MPC2 pull up to VIO				
-	2-3	MPC2 pull down to ground				
JP15	1-2	MPC3 pull up to VIO				
	2-3	MPC3 pull down to ground				
JP16	1-2	MPC4 pull up to VIO				
	2-3	MPC4 pull down to ground				
JP17	1-2	MPC5 pull up to VIO				
01 17	2-3	MPC5 pull down to ground				
JP18	1-2	MPC6 pull up to VIO				
JF 10	2-3	MPC6 pull down to ground				
JP19	1-2	MPC7 pull up to VIO				
JP 19	2-3	MPC7 pull down to ground				
ID20	1-2*	Selects 3.3V from 3.3V_PMOD				
JP20	2-3	Selects 3.3V from 3.3V_LDO				
JP21	1-2	USB VBUS2 connects to 5V TP				
JP22	1-2	Connects BK2OUT to LSW3IN				
IDOS	1-2	Connects LDO1_2 to L1OUT				
JP23	2-3	Connects LDO1_2 to L2OUT				
ID04	1-2	Connects L2IN to BK1OUT				
JP24	2-3	Connects L2IN to SYS				
JP25	1-2	Connects L1IN to SYS				
JP26	1-2	Connects L3IN to SYS				
JP27	1-2	Connects LSW1IN to BK3OUT				
JP200	1-2	Reserved for future (RFU)				
JP201	1-2	RFU				
JP202	1-2	RFU				
IDOOO	1-2	RFU				
JP203	2-3	RFU				
JP204	1-2	RFU				
IDOOF	1-2	RFU				
JP205	2-3	RFU				
JP206	1-2	RFU				
ID007	1-2	RFU				
JP207	2-3	RFU				
JP208	1-2	RFU				
JP209	1-2	RFU				
	1					

^{*}Default position.

Evaluates: MAX20356 Evaluation Kit

Table 2. Connector Description

CONNECTOR		DESCRIPTION							
J1	Connect to USB cable for CHGIN voltage								
J2	J2 Connect to	J2 Connect to battery							
J3	Connect to MA	Connect to MAXPICO2PMB#							
J4	Connect to the	VBUS1 to CHGIN. Install to use CHGIN							
	1 Connects to BBOUT								
J5	2	Connects to LDO1_2 selector							
	3	Connects to L3OUT							
	1	Connects to MPC7							
J6	2	Connects to MPC6							
	3 Connects to SYS								
J7		Connect to the USB cable for battery simulation and 5V connection							
	1	Connects to SDA							
J8	2	Connects to GND							
	3	Connects to SCL							

MAXPICO2PMB Firmware Update

This section covers the procedure to update the PICO2PMB Adapter Board with the latest firmware by programming a firmware image file **(.bin)** onto the on-board MAX32625PICO microcontroller.

Put the board in maintenance mode by holding the button while the board is connected to the computer. It may be easier to hold the button while inserting the USB cable at the computer end rather than the micro-USB connector end (see *Figure 15*).

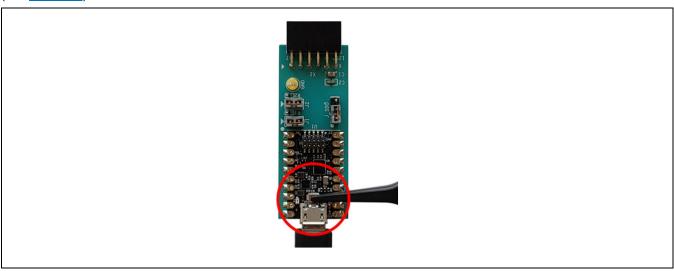


Figure 15. Enter Maintenance Mode on the MAX32625PICO.

If the board enters bootloader mode successfully, the LED on the board turns red, and the board appears to the computer as a USB drive named **MAINTENANCE**.

Drag and drop the firmware image file (.bin) into the MAINTENANCE drive, and the board installs the new firmware.

Ordering Information

PART	TYPE
MAX20356EVKIT#	EV Kit

#Denotes RoHS-compliance.

MAX20356 EV Kit Bill of Materials

ITEM	REF_DES	DNI/ DNP	QTY	MFG PART#	MANUFA CTURER	VALUE	DESCRIPTION
1	5V	-	1	5010	KEYSTO NE	N/A	TEST POINT; PIN DIA=0.125IN; TOTAL LENGTH=0.445IN; BOARD HOLE=0.063IN; RED; PHOSPHOR BRONZE WIRE SIL;
2	60, R74, R88, R144, R167	-	5	ERJ- 2RKF4703	PANASO NIC	470K	RES; SMT (0402); 470K; 1%; +/- 100PPM/DEGC; 0.0630W
3	AIN5-AIN7, BBOUT_S, BK1OUT_S- BK3OUT_S, TP4-TP13, TP55-TP57, VIL_BBOUT, VIL_BK1L3 OUT, VIL_BK2L1 OUT, VIL_BK3L2 OUT, VIL_BK3L2 OUT, VIL_RTC_L	-	25	5002	KEYSTO NE	N/A	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; WHITE; PHOSPHOR BRONZE WIRE SILVER;
4	BATSIM, TP2, TP3, TP14-TP18	-	8	5003	KEYSTO NE	N/A	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; ORANGE; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;
5	C1, C5, C9, C10, C12, C13, C15, C16	-	8	C1005X7S1A 225K050BC	TDK	2.2UF	CAP; SMT (0402); 2.2UF; 10%; 10V; X7S; CERAMIC
6	C2	-	1	C1005X5R1V 225K050BC	TDK	2.2UF	CAP; SMT (0402); 2.2UF; 10%; 35V; X5R; CERAMIC
7	С3	-	1	C1005X5R0J 225K050BC; CL05A225K Q5NSN	TDK;SAM SUNG	2.2UF	CAP; SMT (0402); 2.2UF; 10%; 6.3V; X5R; CERAMIC
8	C4, C18	-	2	C1005X5R0J 475K050BC	TDK	4.7UF	CAP; SMT (0402); 4.7UF; 10%; 6.3V; X5R; CERAMIC
9	C6-C8, C11, C14, C17, C19, C20	-	8	GRM158R61 A226ME15	MURATA	22UF	CAP; SMT (0402); 22UF; 20%; 10V; X5R; CERAMIC;
10	C21, C22, C32, C39, C40, C47, C48, C55, C56, C87, C88, C96, C104, C105, C109, C112, C113, C244	-	18	ANY	ANY	0.1UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1UF; 25V; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R; FORMFACTOR
11	C23, C27	-	2	GRM31CR71 H475KA12;G RJ31CR71H	MURATA; MURATA; MURATA;	4.7UF	CAP; SMT (1206); 4.7UF; 10%; 50V; X7R; CERAMIC

12
12
12 C24 - 1 C1608X5R1 TDK TDK CERAMIC C
12
12
12
12
12
C24
12
12 C24 - 1 C1608X5R1 H104K080AA TDK D.1UF CAP; SMT (0603); 0.1UF; 10%; 50V; X5R; CRAMIC CAPACITOR; SMT (0402); CERAMIC CHIP; 1UF; 16%; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R; FORMFACTOR SMT (0402); CERAMIC CHIP; 1UF; 16%; TOL=10%; MODEL=C SERIES; TG=-55 DEGC TO +85 DEGC; TC=X5R; FORMFACTOR SMT (0603); 2.2UF; 10%; 6.3V; X5R; CERAMIC CAP; SMT (0603); 0.1UF; 10%; 6.3V; X5R; CERAMIC CAP; SMT (0603); 0.1UF; 10%; 10V; X7R; CERAMIC CAP; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=COAD2C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC CAP; SMT (0603); 1UF; 10%; 6
1
13
13
14
14
14
14
14 C26 - 1 GRM188R60 J25KE01; C1608X5R0J J25KE01; C1608X5R0J J25KO80AB 2.2UF CAP; SMT (0603); 2.2UF; 10%; 6.3V; X5R; CERAMIC; 15 C28 - 1 C0603C475K PAC KEMET 4.7UF CAP; SMT (0603); 4.7UF; 10%; 6.3V; X5R; CERAMIC; 16 C29 - 1 C0402X7R50 O-PAC VENKEL LTD::MU RATA; TD K 2200P CAP; SMT (0402); 2200PF; 10%; 50V; X7R; CERAMIC 17 C30 - 1 C0603C104K REMET 0.1UF CAP; SMT (0603); 0.1UF; 10%; 10V; X7R; CERAMIC 18 C31 - 1 C3216X5R1 C476M160A B; GRM31CR 61C476ME44 TDK;MU RATA 47UF CAP; SMT (1206); 47UF; 20%; 16V; X5R; CERAMIC 19 C33, C41, C49, C57, C89 - 5 ANY ANY 0.01UF CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R 20 C34 - 1 GRM18SR60 J105KA01 H02JA01; GCRAMIC; MURATA C51, C59, C90, C90, C91, SMT (0402); 1000PF; 5%; 50V; X7R; CERAMIC
14 C26 - 1 GRM188R80 J25KE01; C1608X5R0J J25KB01; C1608X5R0J J25KB00AB 22JF CAP; SMT (0603); 2:2UF; 10%; 6:3V; X5R; CERAMIC; 15 C28 - 1 C0603C475K 9PAC KEMET 4.7UF CAP; SMT (0603); 4.7UF; 10%; 6:3V; X5R; CERAMIC; 16 C29 - 1 C0402X7R50 0-222KNE;GR M155R71H2 LTD.;MU RATA;TD K VENKEL LTD.;MU RATA;TD K CAP; SMT (0402); 2200PF; 10%; 50V; X7R; CERAMIC 17 C30 - 1 C0603C104K 8RAC KEMET 0.1UF CAP; SMT (0603); 0.1UF; 10%; 10V; X7R; CERAMIC 18 C31 - 1 C0603C104K 8RAC KEMET 0.1UF CAP; SMT (1206); 47UF; 10%; 10V; X7R; CERAMIC 18 C31 - 1 C0603C104K 8RAC TDK;MU RATA 47UF CAP; SMT (1206); 47UF; 20%; 16V; X5R; CERAMIC 18 C31 - 1 C3216X5R1 CAP; RATA 61C476ME44 47UF CAP; SMT (1206); 47UF; 20%; 16V; X5R; CERAMIC 19 C33, C41, C49, C57, C89 - 5 ANY ANY 0.01UF CAP; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-S5 DEGC TO +125 DEGC; TC=X7R
15 C28 - 1 C0603C475K SPAC C0402X7R50 O-
15 C28 - 1 C0603C475K PAC PAC C470MT60 PAC C22KNE;GR M155R71H PAC C29 - 1 C0603C104K RATA;TD F CAP; SMT (0603); 4.7UF; 10%; 6.3V; X5R; CERAMIC; C29 C470MT60
15 C28 - 1 C0603C475K SPAC CERAMIC; CER
15 C28 - 1 C0603C475K SPAC SPAC SPAC C29 - 1 C0402X7R50 O-222KNE;GR M155R71H2 C22KA01;C10 O5X7R1H222 K050BA C33, C41, C49, C57, C89 C33 C42, C43, C50, C51, C58, C59, C90, C97, C97, C97, C97, C97, C97, C97, C97
1
16 C29 - 1 1 C0402X7R50 0-222KNE;GR M155R71H2 LTD.;MU RATA;TD K 17 C30 - 1 C0603C104K 8RAC C3216X5R1 18 C31 - 1 C3603K1 - 1 C476M160A B;GRM31CR 61C476ME44 19 C33, C41, C49, C57, C89 - 1 GRM188R60 J105KA01 MURATA C35, C51, C58, C51, C51, C51, C51, C51, C51, C51, C51
16
1
16 C29 - 1 M155R71H2 22KA01;C10 05X7R1H222 K050BA 17 C30 - 1 C0603C104K 8RAC C3216X5R1 18 C31 - 1 DK;MU B;GRM31CR 61C476M160A B;GRM31CR 61C476ME44 19 C33, C41, C49, C57, C89 20 C34 - 1 GRM188R60 J105KA01 ANY 21 C35, C42, C43, C50, C51, C58, C59, C90 21 GRM155R71 10 GRM155R71 H102JA01;G CMT, C49, C57, C59, C90 C34 - 10 GRM155R71 H102JA01;G CMT, CMT, CMT, CMT, CMT, CMT, CMT, CMT,
17 C30 - 1 C30163C104K RATA;TD K CERAMIC 18 C31 - 1 C3163C104K RATA 19 C33, C41, C49, C57, C89 C34 - 1 GRM188R60 J105KA01 20 C34 - 1 GRM188R60 C35, C42, C43, C50, C51, C58, C59, C90 C90 C90 C90 C90 22 C34 C35, C42, C59, C90
17 C30 - 1 C0603C104K REMET 0.1UF CAP; SMT (0603); 0.1UF; 10%; 10V; X7R; CERAMIC 18
17 C30 - 1 C0603C104K REMET 0.1UF CAP; SMT (0603); 0.1UF; 10%; 10V; X7R; CERAMIC 18
17 C30 - 1 C0603C104K 8RAC KEMET 0.1UF CAP; SMT (0603); 0.1UF; 10%; 10V; X7R; CERAMIC C23216X5R1 C476M160A B;GRM31CR 61C476ME44 ANY 0.01UF CAP; SMT (1206); 47UF; 20%; 16V; X5R; CERAMIC C233, C41, C49, C57, C89 - 5 ANY ANY 0.01UF CAP; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; C235, C42, C43, C50, C51, C58, C59, C90 - 10 GRM155R71 H102JA01; GCM155R71H MURATA; MURATA; MURATA; CERAMIC CAP; SMT (0402); 1000PF; 5%; 50V; X7R; CERAMIC
17 C30 - 1 8RAC KEMEI 0.10F CERAMIC 18 C31 - 1 8RAC C3216X5R1 C476M160A B;GRM31CR 61C476ME44 RATA
18 C31 - 1 C3216X5R1 C476M160A B;GRM31CR 61C476ME44 TDK;MU RATA 47UF CAP; SMT (1206); 47UF; 20%; 16V; X5R; CERAMIC 19 C33, C41, C49, C57, C89 - 5 ANY ANY 0.01UF CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R 20 C34 - 1 GRM188R60 J105KA01 MURATA 1UF CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; 21 C35, C42, C43, C50, C51, C58, C59, C90 - 10 GRM155R71 H102JA01;G CM155R71H MURATA; MURATA; MURATA 1000P CAP; SMT (0402); 1000PF; 5%; 50V; X7R; CERAMIC
18 C31 - 1 C476M160A B;GRM31CR G1C476ME44 TDK;MU RATA 47UF CAP; SMT (1206); 47UF; 20%; 16V; X5R; CERAMIC 19 C33, C41, C49, C57, C89 - 5 ANY ANY 0.01UF CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R 20 C34 - 1 GRM188R60 J105KA01 MURATA 1UF CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; 21 C35, C42, C43, C50, C51, C58, C59, C90 - 10 GRM155R71 H102JA01;G CM155R71H MURATA; F MURATA; MURATA; CERAMIC CAP; SMT (0402); 1000PF; 5%; 50V; X7R; CERAMIC
18 C31 - 1 B;GRM31CR RATA 470F CERAMIC C33, C41, C49, C57, C89 - 5 ANY ANY 0.01UF CAP; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R C35, C42, C43, C50, C51, C58, C59, C90 - 10 GRM155R71 H102JA01;G CM155R71H MURATA; CERAMIC B;GRM31CR RATA 470F CERAMIC CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; CAP; SMT (0402); 1000PF; 5%; 50V; X7R; CERAMIC
18 C31 - 1 B;GRM31CR RATA 470F CERAMIC C33, C41, C49, C57, C89 - 5 ANY ANY 0.01UF CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R C34 - 1 GRM188R60 J105KA01 MURATA 1UF CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; C35, C42, C43, C50, C51, C58, C59, C90 - 10 GRM155R71 H102JA01; GCM155R71H MURATA; F CERAMIC CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; CERAMIC; CERAMIC; CERAMIC
19 C33, C41, C49, C57, C89 - 5 ANY ANY 0.01UF O.01UF O.01UF; 10V; TOL=10%; MODEL=C0402C SERIES; TG=-55 DEGC TO +125 DEGC; TC=X7R 20 C34 - 1 GRM188R60 J105KA01 MURATA MURATA MURATA 1UF CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; 21 C35, C42, C43, C50, C51, C58, C59, C90 - 10 GRM155R71 H102JA01;G CM155R71H MURATA; F MURATA; MURATA F CAP; SMT (0402); 1000PF; 5%; 50V; X7R; CERAMIC
19
19
19
C89 TC=X7R 20 C34 - 1 GRM188R60 J105KA01 TUF CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; C35, C42, C43, C50, C51, C58, C59, C90 10 GRM155R71 H102JA01;G MURATA; TOOP CAP; SMT (0402); 1000PF; 5%; 50V; X7R; CERAMIC
20 C34 - 1 GRM188R60 J105KA01 1UF CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; C35, C42, C43, C50, C51, C58, C59, C90 - 10 GRM155R71 H102JA01; G CM155R71H MURATA; F CAP; SMT (0402); 1000PF; 5%; 50V; X7R; CERAMIC
20 C34 - 1 J105KA01 MURATA 10F CERAMIC; C35, C42, C43, C50, C51, C58, C59, C90 - 10 MURATA; C59, C90 CM155R71H MURATA F CERAMIC CERAMIC;
C35, C42, C43, C50, C51, C58, C59, C90 C35, C42, C43, C50, C51, C58, C59, C90 C67, C90 C68, C42, C43, C50, C51, C58, C59, C90 C68, C90 C78, C
C43, C50, C51, C58, C59, C90 - 10 GRM155R71 H102JA01;G MURATA; 1000P CAP; SMT (0402); 1000PF; 5%; 50V; X7R; CM155R71H MURATA F CERAMIC
21 C43, C50, C51, C58, C59, C90 - 10 H102JA01;G MURATA; 1000P CAP; SMT (0402); 1000PF; 5%; 50V; X7R; CERAMIC
21 C51, C58, - 10 CM155R71H MURATA F CERAMIC
(:59 (:91)
1 000, 000, 1001007
C91, C102
CAPACITOR: SMT (0402): CERAMIC CHIP:
C36, C44,
22 C52, C60, - 5 ANY ANY 1UF TG55 DEGC TO +85 DEGC; TC=X5R;
FORMFACTOR FORMFACTOR
C37, C38, C0402C472 L 4700P CAP: SMT (0402): 4700PE: 5%: 50V: X7R:
C37 C38 FORMFACTOR

	C61-C63, C86, C93, C110, C238						
24	C64, C103	-	2	C1005X5R1A 475K050	TDK	4.7UF	CAP; SMT (0402); 4.7UF; 10%; 10V; X5R; CERAMIC
25	C94, C95	-	2	GRM155R61 C104KA88	MURATA	0.1UF	CAP; SMT (0402); 0.1UF; 10%; 16V; X5R; CERAMIC
26	C97-C100	-	4	C0402C105K 8PAC;CC040 2KRX5R6BB 105	KEMET;Y AGEO	1UF	CAP; SMT (0402); 1UF; 10%; 10V; X5R; CERAMIC
27	C101, C111	-	2	GRM155R71 A104JA01	MURATA	0.1UF	CAP; SMT (0402); 0.1UF; 5%; 10V; X7R; CERAMIC
28	C108	-	1	C3216X5R1 H106K160AB ;GRM31CR6 1H106KA12	TDK;MU RATA	10UF	CAP; SMT (1206); 10UF; 10%; 50V; X5R; CERAMIC
29	DS1-DS3, DS6, DS10	-	5	LG L29K- G2J1-24	OSRAM	LG L29K- G2J1- 24	DIODE; LED; SMT (0603); Vf=1.7V; If(test)=0.002A; -40 DEGC TO +100 DEGC
30	DS5	-	1	LTST- C190CKT	LITE-ON ELECTR ONICS INC.	LTST- C190C KT	DIODE; LED; STANDARD; RED; SMT (0603); PIV=5.0V; IF=0.04A; -55 DEGC TO +85 DEGC
31	J1, J7	-	2	ZX62D-B- 5P8	HIROSE ELECTRI C CO LTD.	ZX62D- B-5P8	CONNECTOR; MALE; SMT; MICRO UNIVERSAL SERIES BUS B-TYPE CONNECTOR; RIGHT ANGLE; 5PINS
32	J2	-	1	800-10-002- 10-001000	MILLMAX	800-10- 002-10- 001000	CONNECTOR; MALE; TH; SINGLE ROW; STRAIGHT; 2PINS
33	J3	-	1	PBC06DBAN	SULLINS ELECTR ONICS CORP.	PBC06 DBAN	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; RIGHT ANGLE; 12PINS; 12PINS - ALTERNATE PIN NUMBERING
34	J4, JP1, JP2, JP7- JP9, JP21, JP22, JP25- JP27	-	11	PBC02SAAN	SULLINS ELECTR ONICS CORP.	PBC02 SAAN	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 2PINS
35	J5, J6	-	2	PEC04SBAN	SULLINS ELECTR ONICS CORP.	PEC04 SBAN	CONNECTOR; MALE; THROUGH HOLE; 0.100INCH CONTACT CENTERS; MALE BREAKAWAY HEADERS; RIGHT ANGLE; NO MOUNTING; 4PINS
36	J8, JP3-JP6, JP14-JP20, JP23, JP24, JP203, JP205, JP207	-	17	PBC03SAAN	SULLINS	PBC03 SAAN	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 3PINS; -65 DEGC TO +125 DEGC
37	JP10-JP13	-	4	TSW-104-07- L-S	SAMTEC	TSW- 104-07- L-S	EVKIT PART-CONNECTOR; MALE; THROUGH HOLE; TSW SERIES; SINGLE ROW; STRAIGHT; 4PINS

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38	JP200- JP202, JP204, JP206, JP208, JP209	-	7	TSW-102-07- T-S	SAMTEC	TSW- 102-07- T-S	CONNECTOR; THROUGH HOLE; TSW SERIES; SINGLE ROW; STRAIGHT; 2PINS; - 55 DEGC TO +105 DEGC
39	L1-L4	-	4	DFE201612E -2R2M	MURATA	2.2UH	INDUCTOR; SMT (0806); WIREWOUND CHIP; 2.2UH; TOL=+/-20%; 1.8A
40	L7	-	1	BLM18AG60 1SN1	MURATA	600	INDUCTOR; SMT (0603); FERRITE-BEAD; 600; TOL=+/-; 0.5A
41	PB1	-	1	1825910-6	TE CONNEC TIVITY	182591 0-6	SWITCH; SPST; THROUGH HOLE; 24V; 0.05A; TACTILE SWITCH; RCOIL=0 OHM; RINSULATION=100M OHM; TE CONNECTIVITY
42	Q200-Q204	-	5	IPC100N04S 5L1R1ATMA 1	INFINEO N	IPC100 N04S5 L1R1A TMA1	TRAN; OPTIMOS 5 POWER-TRANSISTOR; NCH; PG-TDSON-8-34; PD-(150W); I-(100A); V-(40V)
43	Q208	-	1	FDN360P	ON SEMICO NDUCTO R	FDN36 0P	TRANSISTOR, MOSFET P-CHANNEL, SUPERSOT-3, PD=0.5W, ID=-2.0A, VDSS=- 30V,VGSS=+/-20V
44	Q209	-	1	2N7002;2N7 002;2N7002; 2N7002	DIODES INCORP ORATED; ST MICROE LECTRO NICS;ON SEMICO NDUCTO R;MICRO COMME RCIAL COMPON ENTS	2N700 2	TRAN; ; NCH; SOT-23; PD-(0.33W); IC-(0.5A); VCEO-(60V); -55 DEGC TO +150 DEGC
45	R1, R13, R15, R16	-	4	ERJ- 2RKF1001	PANASO NIC	1K	RES; SMT (0402); 1K; 1%; +/-100PPM/DEGC; 0.1000W
46	R3, R22, R55, R69, R83, R139	-	6	9C04021A10 00FL; RC0402FR- 07100RL	PANASO NIC;YAG EO PHYCOM P	100	RES; SMT (0402); 100; 1%; +/-100PPM/DEGC; 0.0630W
47	R4	-	1	PV36Y105C0 1B00	MURATA	1M	RESISTOR; THROUGH-HOLE-RADIAL LEAD; PV36 SERIES; 1M OHM; 10%; 100PPM; 0.5W; TRIMMER POTENTIOMETER; 25 TURNS; MOLDER CERAMIC OVER METAL FILM
48	R5, R10, R11, R38, R39, R49, R53, R96- R99, R174, R175, R281, R282	-	15	RC0402FR- 0710KL;CR0 402-FX- 1002GLF	YAGEO;B OURNS	10K	RES; SMT (0402); 10K; 1%; +/-100PPM/DEGC; 0.0630W

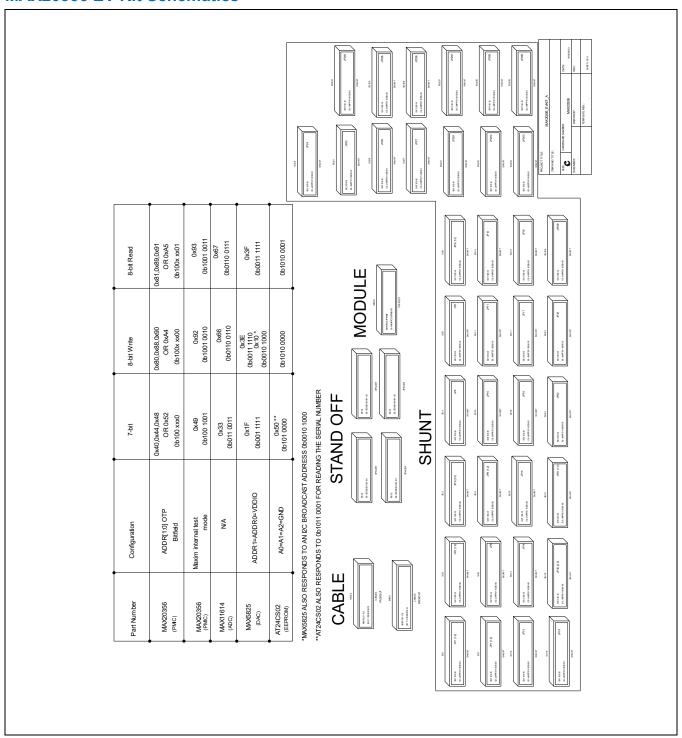
49	R6	_	1	ERJ-	PANASO	0.01	RES; SMT (0402); 0.01; 1%; 0 TO
	R7, R17- R21, R23-			2LWFR010	NIC		+500PPM/DEGC; 0.2000W
50	R35, R41, R45, R46, R48, R50, R57	-	25	ERJ- 2GEJ104	PANASO NIC	100K	RES; SMT (0402); 100K; 5%; +/- 200PPM/DEGC; 0.1000W
51	R8, R9, R12, R100, R152	-	5	CRCW04024 99RFK	VISHAY DALE	499	RES; SMT (0402); 499; 1%; +/-100PPM/DEGC; 0.0630W
52	R14, R40, R68, R82, R138	-	5	CRCW04022 0K0FK	VISHAY DALE	20K	RES; SMT (0402); 20K; 1%; +/-100PPM/DEGC; 0.0630W
53	R36, R42, R70, R84, R140, R161, R178-R180, R286	-	10	ANY	ANY	0	RESISTOR; 0402; 0 OHM; 1%; 100PPM; 0.0625W; THICK FILM; FORMFACTOR
54	R43	-	1	CRCW04024 K70FK;MCR 01MZPF4701	VISHAY DALE;RO HM SEMICO NDUCTO R	4.7K	RES; SMT (0402); 4.7K; 1%; +/- 100PPM/DEGC; 0.0630W
55	R44, R72, R73, R86, R87, R142, R143, R164- R166	-	10	ERJ- 2RKF2002	PANASO NIC	20K	RES; SMT (0402); 20K; 1%; +/-100PPM/DEGC; 0.1000W
56	R47, R61, R81, R89, R145	-	5	CRCW04026 49KFK	VISHAY DALE	649K	RES; SMT (0402); 649K; 1%; +/- 100PPM/DEGC; 0.0630W
57	R51, R60, R158-R160	-	5	ERJ- 2GE0R00	PANASO NIC	0	RES; SMT (0402); 0; JUMPER; JUMPER; 0.1000W
58	R52	-	1	ERJ- 2RKF5100	PANASO NIC	510	RES; SMT (0402); 510; 1%; +/-100PPM/DEGC; 0.1000W
59	R54, R56	-	2	WSL0805R1 000FEA18	VISHAY DALE	0.1	RES; SMT (0805); 0.1; 1%; +/-75PPM/DEGC; 0.1250W
60	R58	-	1	3296Y-1- 253LF	BOURNS	25K	RESISTOR; THROUGH-HOLE-RADIAL LEAD; 3296 SERIES; 25K OHM; 10%; 100PPM; 0.5W; SQUARE TRIMMING POTENTIOMETER; 25 TURNS; MOLDER CERAMIC OVER METAL FILM
61	R59	-	1	ERJ- 2RKF1152	PANASO NIC	11.5K	RES; SMT (0402); 11.5K; 1%; +/- 100PPM/DEGC; 0.1000W
62	R62, R75, R90, R148, R170	-	5	CRCW04021 M00FK	VISHAY DALE	1M	RES; SMT (0402); 1M; 1%; +/-100PPM/DEGC; 0.0630W
63	R63, R64, R76, R77, R91, R92, R146, R147, R168, R169	-	10	ANY	ANY	1K	RESISTOR; 0402; 1K; 1%; 100PPM; 0.0625W; THICK FILM; FORMFACTOR
64	R65, R67, R78, R80,	-	10	CRCW04027 87KFK	VISHAY DALE	787K	RES; SMT (0402); 787K; 1%; +/- 100PPM/DEGC; 0.0630W

	R93, R95,						
	R149, R151,						
	R172, R173						
65	R66, R79, R94, R171	-	4	CRL1206- JW-R100ELF	BOURNS	0.1	RES; SMT (1206); 0.1; 1%; +/-200PPM/DEGC; 0.2500W
66	R71, R85, R141, R162, R163	-	5	RC0402FR- 07680RL	YAGEO	680	RES; SMT (0402); 680; 1%; +/-100PPM/DEGC; 0.0630W
67	R150	-	1	CRCW12061 78RFK	VISHAY DALE	178	RES; SMT (1206); 178; 1%; +/-100PPM/DEGC; 0.2500W
68	R153	-	1	CRCW04024 752FK; 9C04021A47 52FLHF3; CRCW04024 7K5FK	VISHAY DALE;YA GEO;VIS HAY DALE	47.5K	RES; SMT (0402); 47.5K; 1%; +/- 100PPM/DEGC; 0.0630W
69	R2, R37, R154, R156	-	4	CRCW04021 00KFK;RC04 02FR- 07100KL	VISHAY; YAGEO	100K	RES; SMT (0402); 100K; 1%; +/- 100PPM/DEGC; 0.0630W
70	R155	-	1	CRCW04021 69KFK	VISHAY DALE	169K	RES; SMT (0402); 169K; 1%; +/- 100PPM/DEGK; 0.0630W
71	R157	-	1	CRCW04024 70RFK	VISHAY DALE	470	RES; SMT (0402); 470; 1%; +/-100PPM/DEGC; 0.0630W
72	R176, R177	-	2	ANY	ANY	0	RESISTOR; 0603; 0 OHM; 0%; JUMPER; 0.10W; THICK FILM; FORMFACTOR
73	SPACER1- SPACER4	-	4	9032	KEYSTO NE	9032	MACHINE FABRICATED; ROUND-THRU HOLE SPACER; NO THREAD; M3.5; 5/8IN; NYLON
74	SU1-SU27, SU200- SU209	-	37	S1100- B;SX1100- B;STC02SYA N	KYCON;K YCON;S ULLINS ELECTR ONICS CORP.	SX110 0-B	TEST POINT; JUMPER; STR; TOTAL LENGTH=0.24IN; BLACK; INSULATION=PBT;PHOSPHOR BRONZE CONTACT=GOLD PLATED
75	TP1, TP19- TP24, VSIM	-	8	5000	KEYSTO NE	N/A	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; RED; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;
76	TP25-TP54	-	30	5001	KEYSTO NE	N/A	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;
77	U1	-	1	MAX20356	MAXIM	MAX20 356	EVKIT PART- IC; WEARABLE POWER NAMAGEMENT SOLUTION; PACKAGE OUTLINE DRAWING: 21-100616; WLP 63 PINS; 0.5MM PITCH; PACKAGE CODE: W633A4+1
78	U2	-	1	OPA569AID WPR	TEXAS INSTRU MENTS	OPA56 9AIDW PR	IC; AMP; RAIL-TO-RAIL I/O; POWER AMPLIFIER; WSOIC20-EP 300MIL
79	U3	-	1	MAX5825AW P+	MAXIM	MAX58 25AWP +T	IC; DAC; ULTRA-SMALL; OCTAL CHANNEL; 12-BIT BUFFERED OUTPUT DAC WITH INTERNAL REFERENCE AND I2C INTERFACE; WLP20

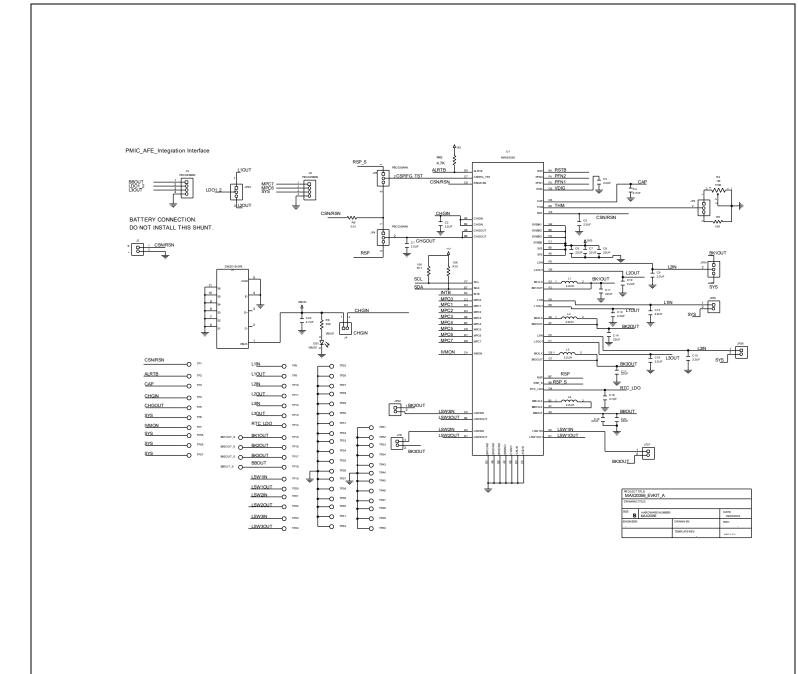
MAX20356 Evaluation Kit

80	U4	-	1	NC7WZ07P6	FAIRCHI LD SEMICO NDUCTO R	NC7W Z07P6 X	IC; BUF; TINY LOGIC ULTRA-HIGH SPEED DUAL BUFFER; SC70-6
81	U5	-	1	MAX1697UE UT+	MAXIM	MAX16 97UEU T+	IC; INV; INVERTING CHARGE PUMP WITH SHUTDOWN; SOT23-6
82	U6, U8, U10, U12, U20	-	5	MAX44251A UA+	MAXIM	MAX44 251AU A+	IC; OPAMP; ULTRA-PRECISION; LOW-NOISE OP AMP; UMAX8;
83	U22	-	1	MAX6071AA UT41+	MAXIM	MAX60 71AAU T41+	IC; VREF; LOW NOISE; HIGH-PRECISION SERIES VOLTAGE REFERENCE; SOT23-6
84	U23	-	1	MAX11614E EE+	MAXIM	MAX11 614EE E+	IC; ADC; LOW-POWER; 8-CHANNEL; I2C; 12-BIT ADC IN ULTRA-SMALL PACKAGE; QSOP16
85	U24, U25	-	2	MAX8512EX K+	MAXIM	MAX85 12EXK	IC, VREG, Ultra-Low-Noise, High PSRR, Adjustable Vout, SC70-5
86	U26	-	1	AT24CS02- SSHM	MICROC HIP	AT24C S02- SSHM	IC; EPROM; I2C-COMPATIBLE TWO-WIRE SERIAL EEPROM; 150MIL; NSOIC8
87	U27	-	1	MAX8880EU T+	MAXIM	MAX88 80EUT +	IC; VREG; ULTRA-LOW-IQ LOW-DROPOUT LINEAR REGULATOR WITH POK; SOT23-6
88	PCB	-	1	MAX20356	MAXIM	PCB	PCB:MAX20356
89	MISC1, MISC2	DNI	2	AK67421-0.5	ASSMAN N	AK674 21-0.5	CONNECTOR; USB CABLE; MALE-MALE; USB_2.0; 5PINS-4PINS; 500MM
90	MISC3	DNI	1	MAXPICO2P MB#	MAXIM	MAXPI CO2P MB#	ACCESSORY; BRD; PACKOUT; MAXPICO2PMB ADAPTER BOARD
TOTAL			438				

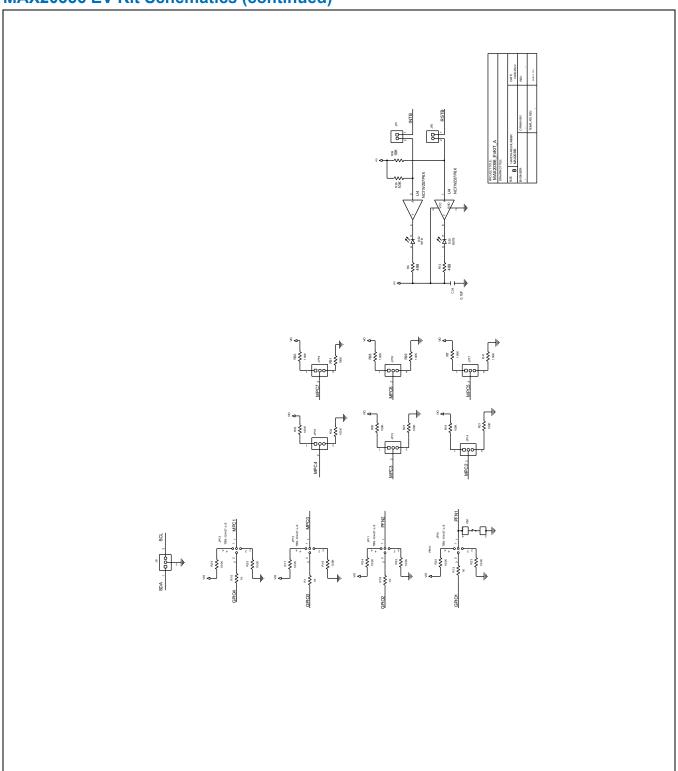
MAX20356 EV Kit Schematics



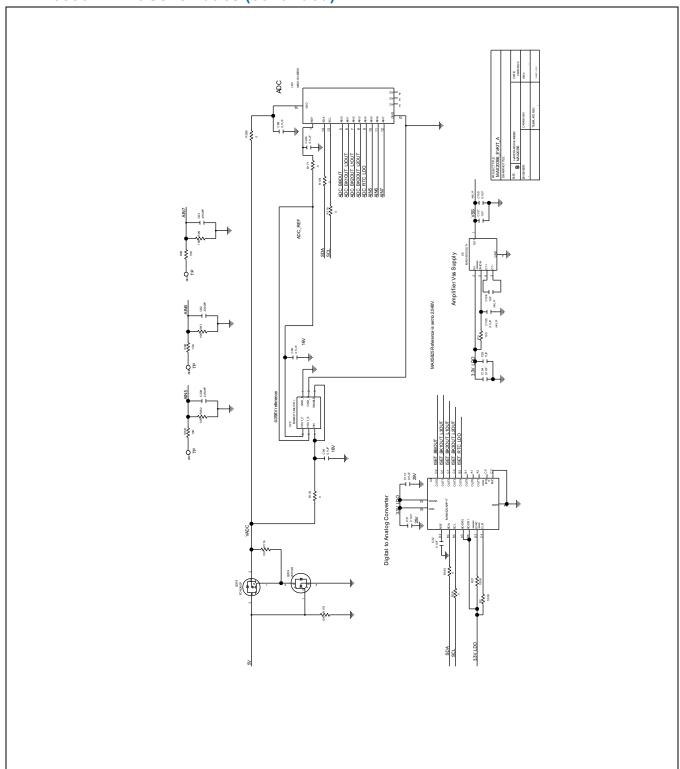
MAX20356 EV Kit Schematics (continued)



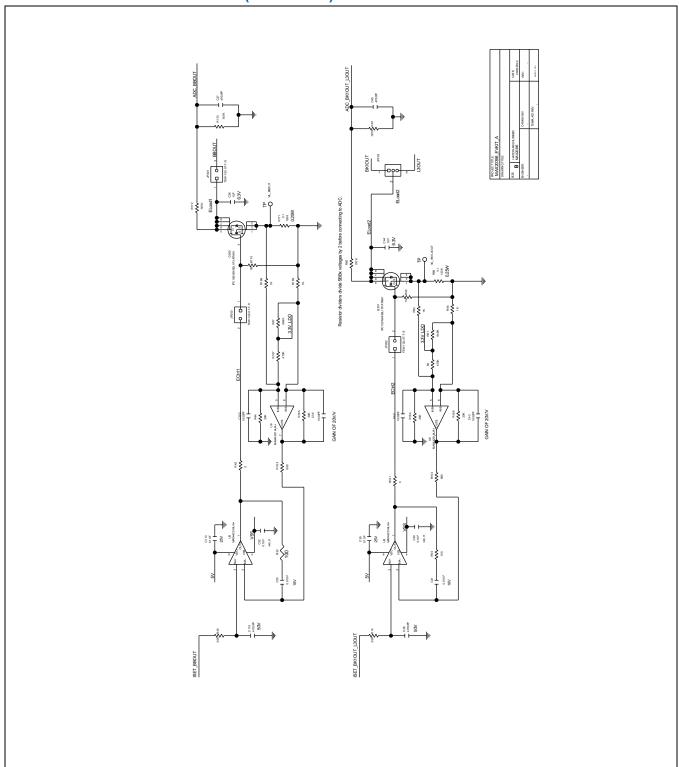
MAX20356 EV Kit Schematics (continued)



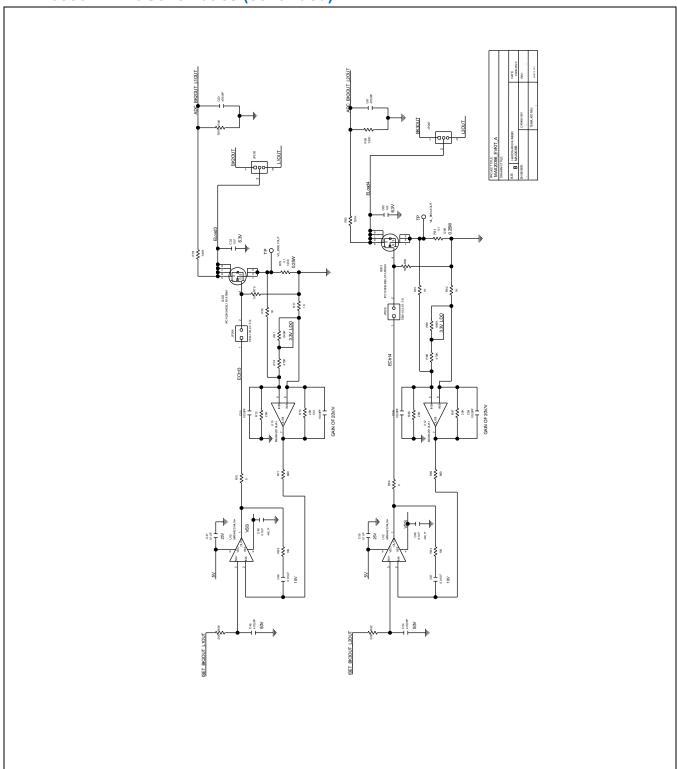
MAX20356 EV Kit Schematics (continued)



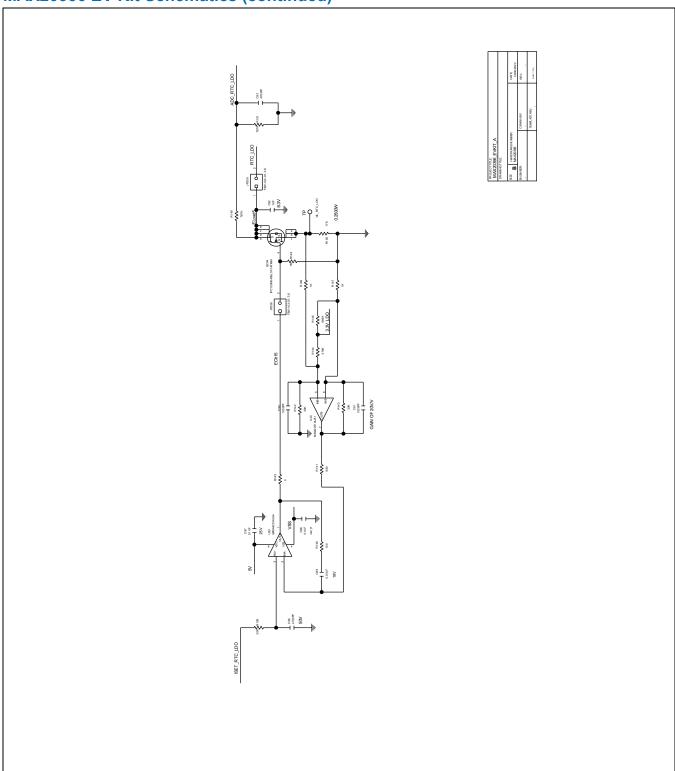
MAX20356 EV Kit Schematics (continued)



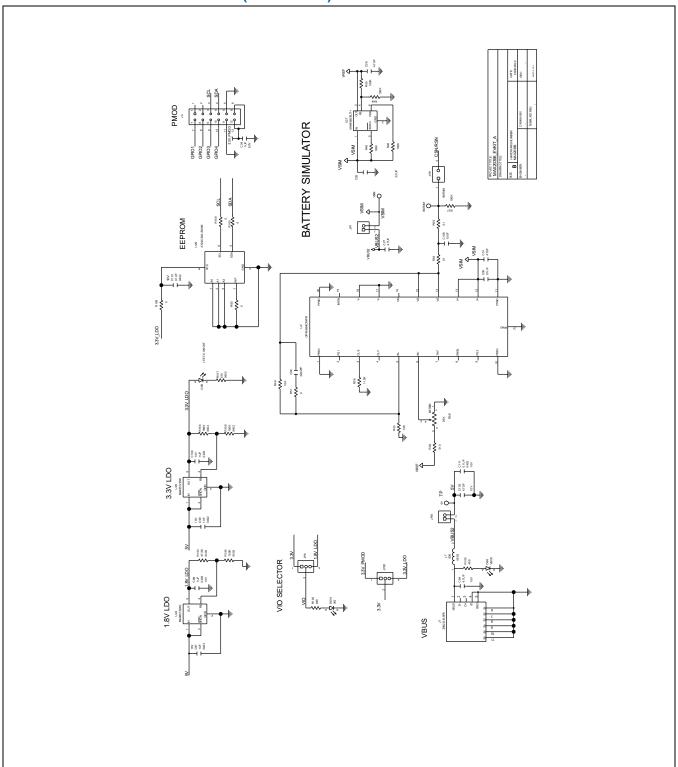
MAX20356 EV Kit Schematics (continued)



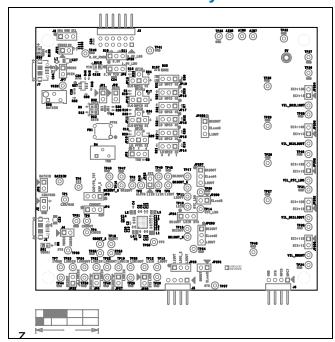
MAX20356 EV Kit Schematics (continued)



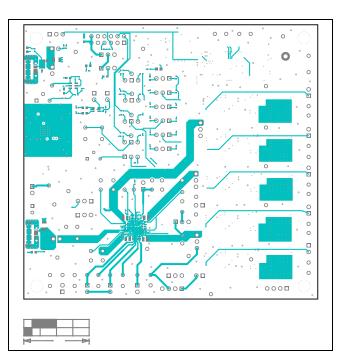
MAX20356 EV Kit Schematics (continued)



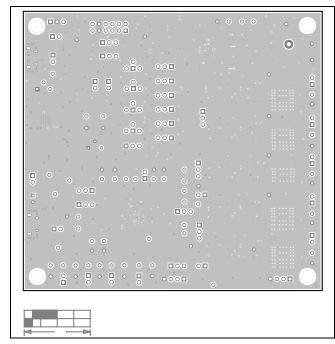
MAX20356 EV Kit PCB Layouts



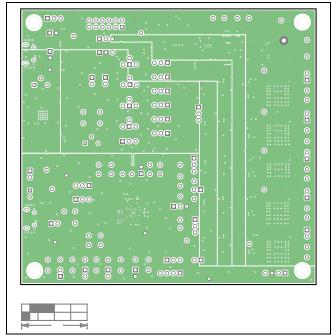
MAX20356 EV Kit Component Placement Guide—Top Silkscreen



MAX20356 EV Kit PCB Layout—Top

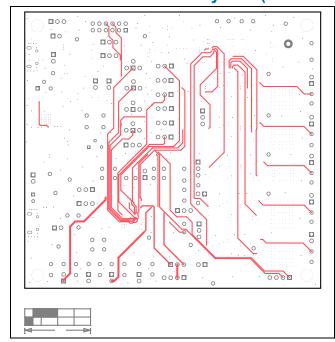


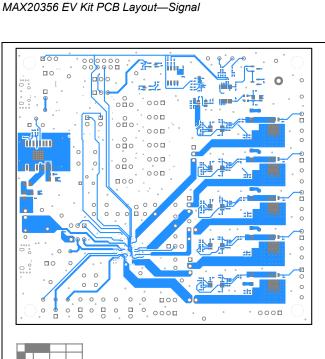
MAX20356 EV Kit PCB Layout—GND1



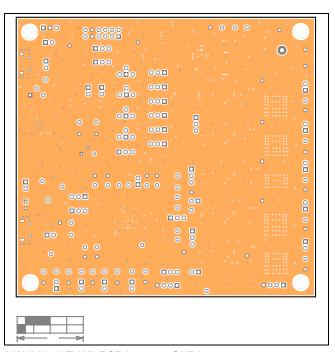
MAX20356 EV Kit PCB Layout—Power

MAX20356 EV Kit PCB Layouts (continued)

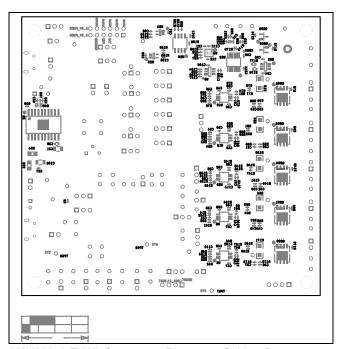




MAX20356 EV Kit PCB Layout—Bottom



MAX20356 EV Kit PCB Layout—GND2



MAX20356 EV Kit Component Placement Guide—Bottom Silkscreen

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MAX20356 Evaluation Kit

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	1/23	Initial release	_

