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Evaluates: MAX14745

MAX14745 Evaluation System Kit

General Description

The MAX14745 evaluation system kit (EVSYS kit) is a fully assembled and tested circuit board that demonstrates the MAX14745 low power wearable power management integrated circuit (PMIC). The MAX14745 features two bucks, three linear regulators, and a battery charger.

The MAX14745 EVSYS kit comes with the MAX14745 board, the MAXPICO2PMB# board, and two USB micro-B cables. The EVSYS kit comes with the MAX14745AEWX+ installed. The MAX14745 is configurable through an I²C interface that allows for programming various functions and reading the device status. The EV kit GUI application sends commands to the MAXPICO2PMB# adapter board to configure the device.

Features

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

EV Kit Contents

- MAX14745 EVSYS Kit
- MAXPICO2PMB# board
- Two USB A to USB micro-B cables

EV Kit Contents

FILE	DESCRIPTION		
MAX14745EVKitSetupVxxx.exe	PC GUI Program		

Ordering Information appears at end of data sheet.

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

Quick Start

Required Equipment

- MAX14745 EVSYS Kit
- Windows PC with USB Ports
- One USB A to USB Micro-B Cable and MAXPI-CO2PMB# adapter board
- One USB A to USB Micro-B Cable or Power Supply (for battery simulation or battery voltage)
- (Optional) One USB A to USB Micro-B Cable or Power Supply (for charger input CHGIN)
- Voltmeter

Procedure

The EV kit is fully assembled and tested. **Note:** In the following sections, software-related items are identified by bold text. Text in bold refers to items directly from the EV kit software. Follow the steps to verify board operation:

- Visit https://www.maximintegrated.com to download the latest version of the EV kit software, MAX-14745EVKitSetupVxxx.zip located on the MAX14745EVSYS kit web page. Download the EV kit software to a temporary folder and unzip the zip file.
- Install the EV kit software on your computer by running the MAX14745EVKitSetupVxxx.exe program inside the temporary folder.
- 3) Verify that all jumpers are in their default positions, as shown in Table 1.
- 4) Connect the type-A end of the cable to the PC and the micro-USB end of the cable to the MAXPI-CO2PMB# board, and connect the MAXPICO2PMB# to J13 located on lower left of the EVSYS kit board.
- 5) Connect a USB A to micro-B cable from the computer to J21 on upper right corner of the EVSYS kit board to use VBUS to power the battery simulation circuits on board, or power the battery simulation circuits from the VHC test point. (The user can also use a Li-ion battery or power source to evaluate the device if not using the battery simulation circuits. Connect the battery or power source to J2 on the EVSYS Kit board. Skip step 6 if not using the battery simulation.)

319-100840 · Rev 0 · 11/21

- 6) Use voltmeter to check VHC is about 5V, and that the BATSIM test point is about 3.7V. To adjust the BATSIM voltage, turn the R58 BATSIM potentiometer.
- On the computer, open the MAX14745 GUI. It should look like <u>Figure 1</u>, with the status bar on the bottom displaying MAX14745 Not Found.
- 8) Place shunt on J15, then confirm that TP BAT is the set BATSIM voltage. The GUI status bar on the bottom should now display **Connected**.
- 9) Check the SYS and B2OUT test point, both have no voltage.

Evaluates: MAX14745

- 10) With a short press on the PB1 (/KIN) button, the device enters ON mode. When the device is ON, SYS is about 3.7V (BAT voltage), and B2OUT is about 1.8V.
- 11) The EVSYS kit is now ready for additional evaluation.
- 12) To evaluate the battery charger, the user can shunt J3 and plug in USB micro-B cable to J1 of the EVSYS kit to use USB VBUS power, or externally supply the charging power on TP CHGIN.

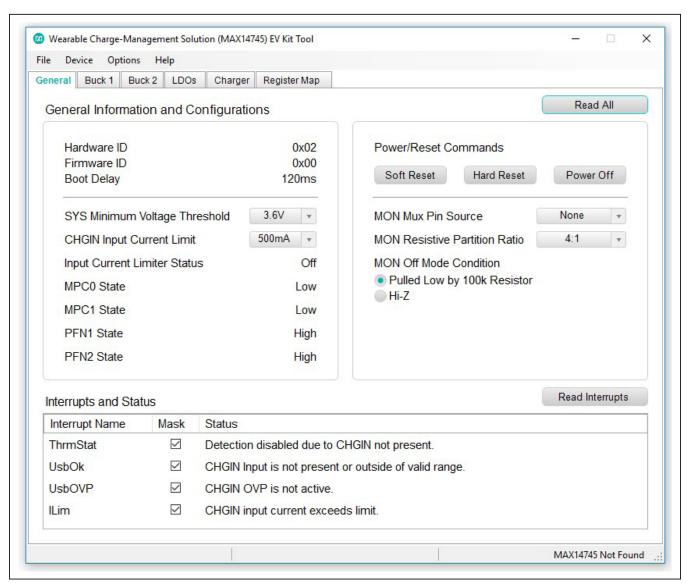
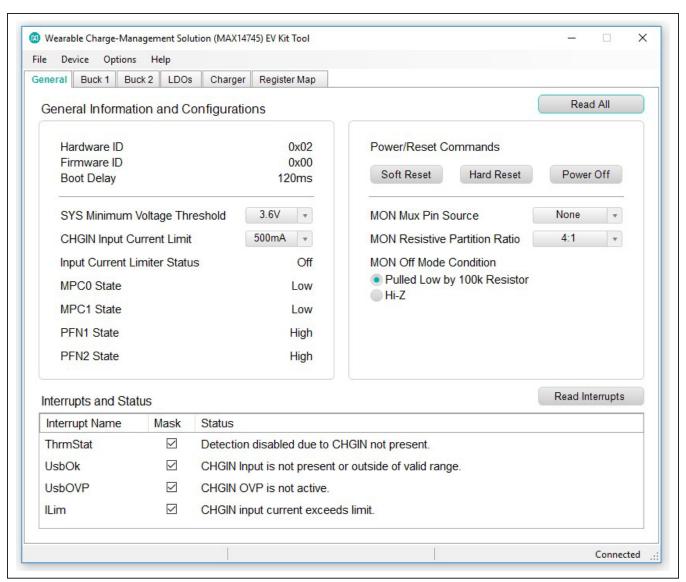


Figure 1. MAX14745 Not Found Status



Evaluates: MAX14745

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 the addresses are found. If the USB connection is not detected, the status bar displays **Not Connected**. If the USB connection is detected, but the MAX14745 is not found, the status bar shows **MAX14745 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 whose functions are detailed in the following sections.

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.

Options Menu

In the **Options** menu, the **Disable Polling** option lets the user read the registers manually instead of getting automatically frequent register updates from the IC. The **Use USB2PMB2#** option should be checked if using with the USB2PMB2# adapter board.

Evaluates: MAX14745

Help Menu

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

Tab Controls

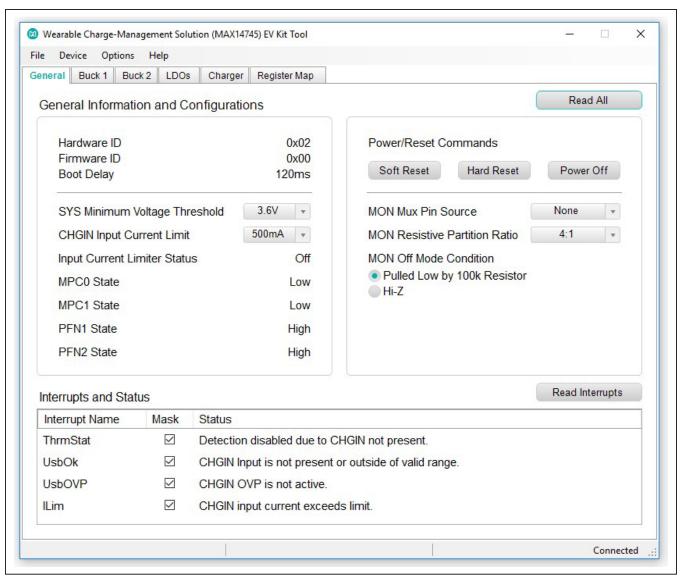
The MAX14745 EV kit software GUI provides a convenient way to test the features of the MAX14745. Each tab contains controls relevant to various blocks of the device. Changing these interactive controls triggers a write operation to the MAX14745 to update the register contents. The **Read AII** button reads all the configuration registers that are visible on the current tab page. 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 (Figure 4) provides information on device info, set power reset command, SYS minimum voltage threshold, CHGIN input current limit, input current limiter status, MON setting, PFNs and MPCs status.



Figure 3. The ToolStrip Menu Items



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Figure 4. General Tab

Buck1/2 Tabs

In the **Buck1**, **Buck2** tabs (<u>Figure 5</u> and <u>Figure 6</u>), the user can enable bucks, set buck voltages, inductor current settings, and some additional settings.

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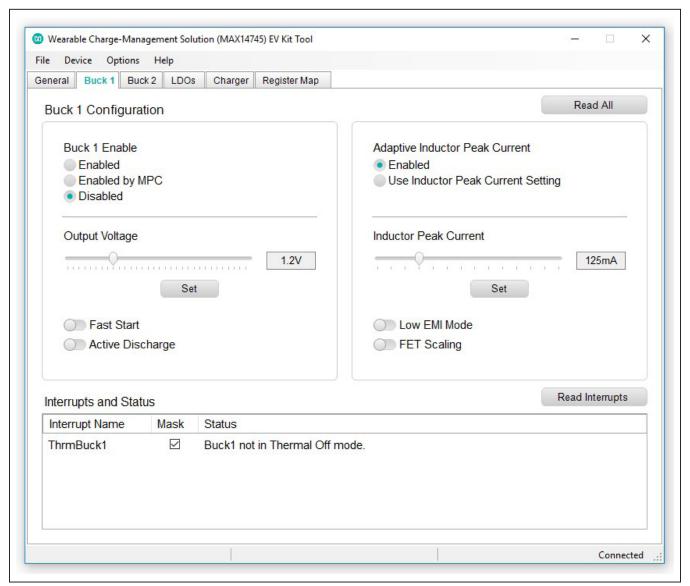
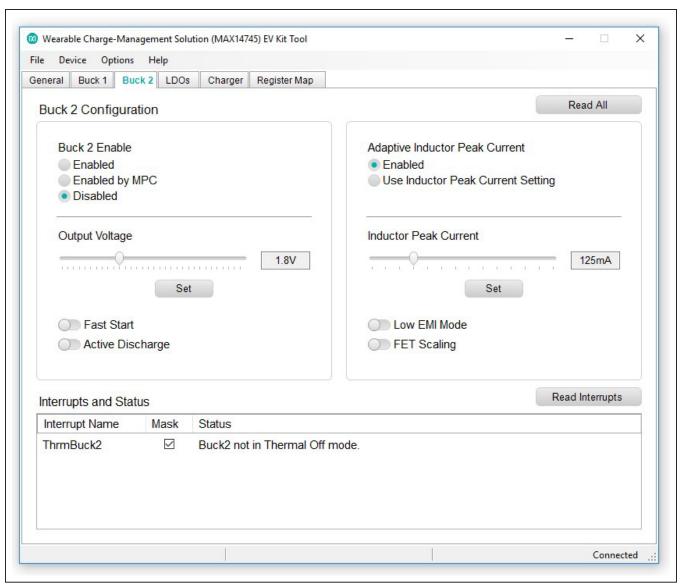


Figure 5. Buck1 Tab



Evaluates: MAX14745

Figure 6. Buck2 Tab

LDOs Tab

The LDOs tab (Figure 7) lets the user enable LDOs, set LDO voltages, and change to load switch mode.

Evaluates: MAX14745

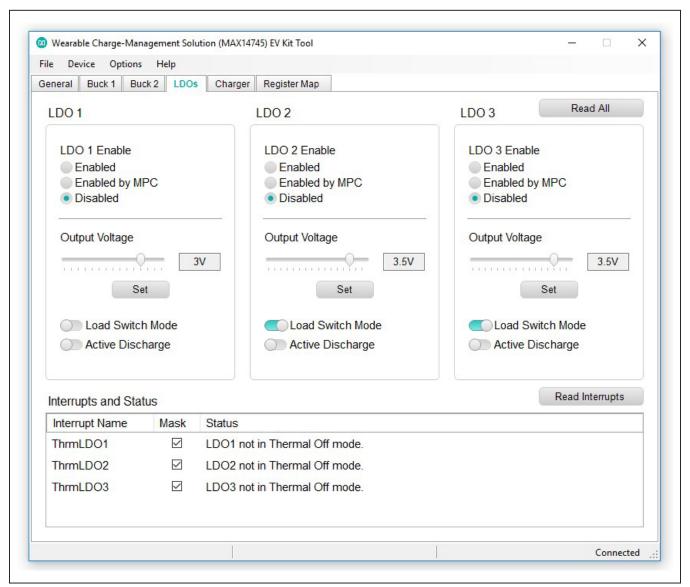


Figure 7. LDOs Tab

Charger Tab

The **Charger** tab (Figure 8) lets the user set the charger and thermistor monitoring configuration. The charger and thermistor status section constantly polls the charger and

thermistor statuses and displays any changes. Polling happens even when the **Charger** tab is not selected. Polling can be disabled by selecting **Disable Polling** in the **Options** menu at the top of the application.

Evaluates: MAX14745

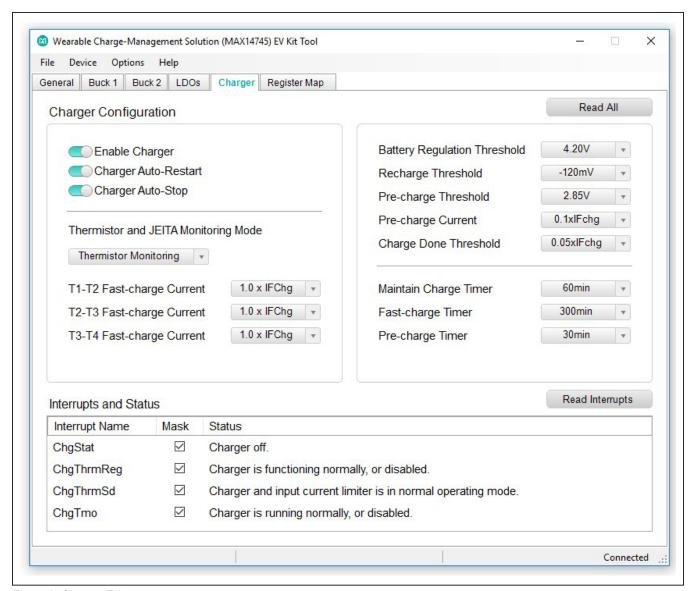


Figure 8. Charger Tab

Register Map Tab

The **Register Map** tab allows for the configuration of all I²C registers, including those not configurable in other tabs. The register to be read from or written to can be selected in the left table. 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.

Evaluates: MAX14745

The user can click **Read All** to perform a burst read of all registers.

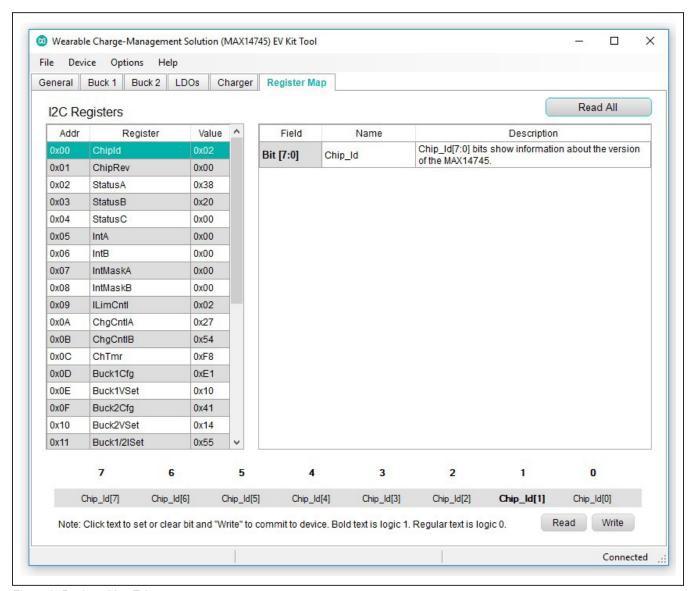


Figure 9. Register Map Tab

Detailed Description of Hardware

The MAX14745 EVSYS kit evaluates the MAX14745 low power wearable PMIC, which communicates over the I²C interface. The EVSYS kit demonstrates the IC features such as bucks, linear regulators, LED indicator, and battery charger. The EVSYS kit uses the IC in a 36-bump

wafer-level package on a proven, four-layer PCB design. The EVSYS kit can use USB VBUS +5V DC for battery and charger input power source. Alternatively, the EVSYS kit can be powered from an external power supply. Figure 10 and Figure 11 show the EVSYS kit and block annotated pictures.

Evaluates: MAX14745

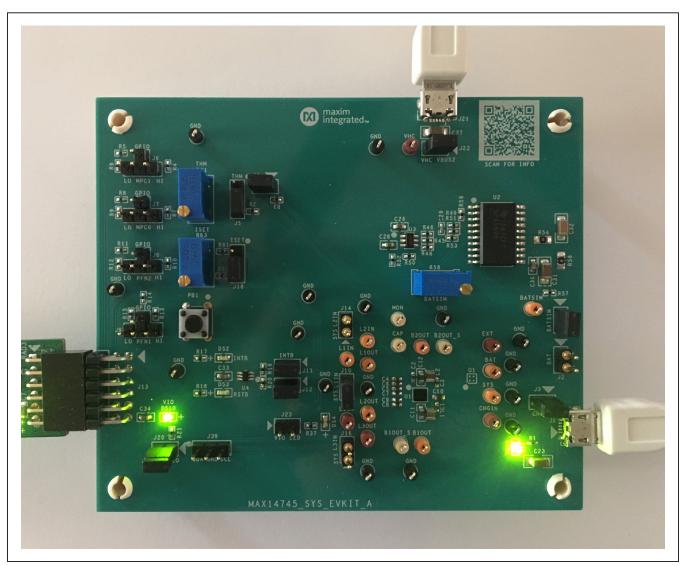


Figure 10. MAX14745 EVSYSKIT Board Picture

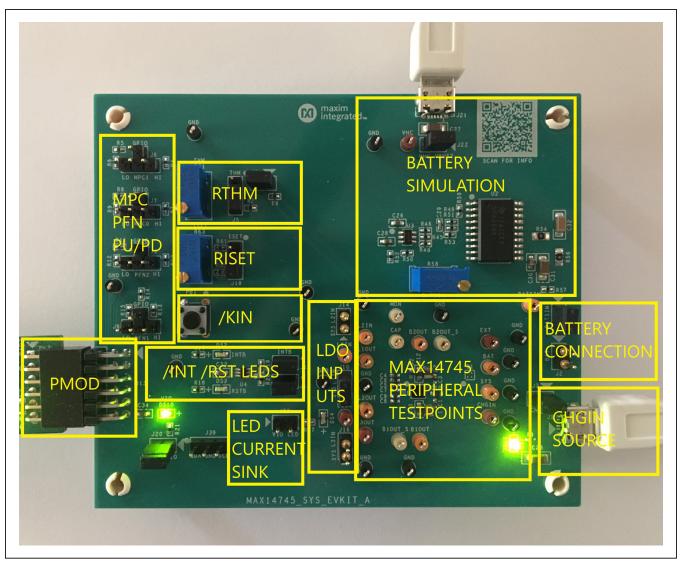


Figure 11. MAX14745 EVSYSKIT Block Annotated Picture

Hardware Setup

To use the EVSYS kit with the GUI, connect the MAXPICO2PMB# to the PMOD connector in the bottom left corner of the board. The MAXPICO2PMB# also provides 3.3V to the logic voltage VIO of the EVSYS kit when shunting J20. The user can use J21 USB VBUS to power the battery simulation circuits on the EVSYS kit to supply BAT of the IC. Turning the R58 potentiometer can change the BATSIM voltage. Connect BATSIM to BAT of the IC with shunt on J15. Alternatively, instead of using battery simulation circuits on board, the user can connect their Li-ion battery on J2 connector. The user can use J1 USB VBUS as CHGIN source and place shunt on J3.

PFNs and MPCs States

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

Evaluates: MAX14745

Regulators and Peripherals

All regulator outputs are made available on test points. The inputs to the LDO1, LDO2, and LDO3 must be supplied externally, or use J10, J14, J16 to power LDO1, 2, 3 from SYS voltage. The buck1 and buck2 outputs have sense test points which provide easy voltage measuring.

Thermistor and SET Adjustment

When the J4 shunt is installed, THM is pulled up to TPU through a $10k\Omega$ resistor. Header J5 is used to select the pull-down resistor for THM. When pin 1 and 2 is shunted, potentiometer R31 is used to simulate a thermistor at THM. When pin 2 and 3 is shunted, a fixed $15k\Omega$ resistor is connected between THM and ground.

Header J18 is used to select the resistor for R_{ISET} which sets the fast charge current I_{FCHG}. Shunting pin 1 and 2 selects potentiometer R63 and the user can change R_{ISET} to change I_{FCHG}. Shunting pin 2 and 3 selects a fixed $39 k\Omega$ resistor, which sets fast charge current to 51 mA.

INT and RST LED Indicators

Shunts can be installed on J11 and J12 to show the status of $\overline{\text{INT}}$ and $\overline{\text{RST}}$ as LED indicators, DS2 and DS3. When the corresponding LED luminates, it means the active-low output is pulled low.

Evaluates: MAX14745

LED Charger State Indicator

The LED current sink (DS4) is an indicator of the charger state. The LED is on, off, or blink, depends on the charger state. Refer to the Charger State Diagram in the MAX14745 IC data sheet.

Jumper Setting

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

Table 1. Jumper Setting

JUMPER	SHUNT POSITION	DESCRIPTION				
J3	1-2	CHGIN connect to USB VBUS from J1				
J4	1-2*	THM connect to CAP for thermistor monitoring				
IE.	1-2	THM connect to potentiometer				
J5	2-3*	THM connect to 15kΩ (60%/room zone)				
	1-2	MPC1 pull down to ground				
J6	1-3	MPC1 connect to GPIO4				
	1-4	MPC1 pull up to VIO				
	1-2	MPC0 pull down to ground				
J7	1-3	MPC0 connect to GPIO3				
	1-4	MPC0 pull up to VIO				
	1-2	PFN2 pull down to ground				
J8	1-3	PFN2 connect to GPIO2				
	1-4	PFN2 pull up to VIO				
	1-2	PFN1 pull down to ground				
J9	1-3	PFN1 connect to GPIO1				
	1-4	PFN1 pull up to VIO				
J10	1-2	L1IN connects to SYS				
J11	1-2*	INT connect to pull up VIO and DS2.				
J12	1-2*	RST connect to pull up VIO and DS3.				
J14	1-2	L2IN connect to SYS				
J15	1-2	BATSIM connect to BAT				
J16	1-2	L3IN connect to SYS				
J18	1-2	ISET connect to potentiometer				
316	2-3*	ISET connect to 39kΩ (fast charge current 0.05A)				
J20	1-2*	VIO connect to 3.3V from PMOD				
J22	1-2*	VHC connect to USB VBUS from J21				
J23	1-2*	LED supply from VIO				
J39	1-2	SDA connect to ground				
138	2-3	SCL connect to ground				

^{*}Default position.

Table 2. Connectors Description

CONNECTOR	DESCRIPTION
J1	Connect to USB cable for CHGIN voltage
J2	Connect to Battery
J13	Connect to MAXPICO2PMB#
J21	Connect to USB cable for battery simulation

Ordering Information

PART	TYPE
MAX14745EVSYS#	EV Kit

Evaluates: MAX14745

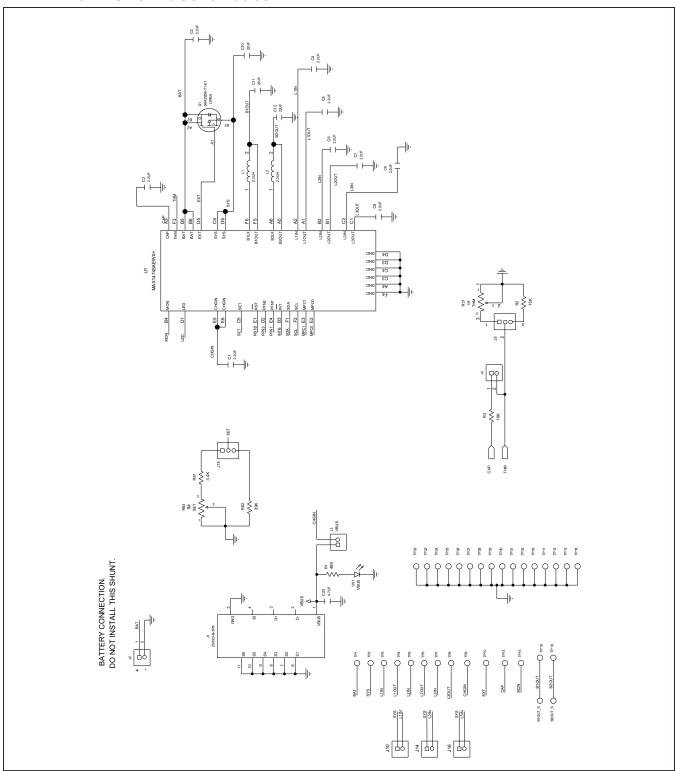
#Denotes RoHS compliant.

MAX14745 EVSYS Kit Bill of Materials

	X14/45 EV5Y5					T	
ITEM	REF_DES	DNI/DNP	QTY	MFG PART#	MANUFACTURER	VALUE	DESCRIPTION TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN;
1	B1OUT_S, B2OUT_S, TP14, TP15	-	4	5002	KEYSTONE	N/A	BOARD HOLE=0.04IN; WHITE; PHOSPHOR BRONZE WIRE SILVER;
2	BATSIM, TP1-TP6, TP18, TP19		9	5003	KEYSTONE	N/A	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; ORANGE; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;
3	C1-C9	-	9	C1005X5R1V225K050BC	TDK	2.2UF	CAP; SMT (0402); 2.2UF; 10%; 35V; X5R; CERAMIC
4	C10-C12	-	3	GRM188R60J226ME15	MURATA	22UF	CAP; SMT (0603); 22UF; 20%; 6.3V; X5R; CERAMIC;
5	C23, C27	-	2	GRM31CR71H475KA12; GRJ31CR71H475KE11; GXM31CR71H475KA10; UMK316AB7475KL; GRM31CR71H475KA12L	MURATA;MURATA; TAIYO YUDEN;MURATA	4.7UF	CAP; SMT (1206); 4.7UF; 10%; 50V; X7R; CERAMIC
6	C26	-	1	C0603C225K9PAC; GRM188R60J225KE01; C1608X5R0J225K080AB	KEMET;MURATA;TDK	2.2UF	CAP; SMT (0603); 2.2UF; 10%; 6.3V; X5R; CERAMIC;
7	C28	-	1	C0603C475K9PAC	KEMET	4.7UF	CAP; SMT (0603); 4.7UF; 10%; 6.3V; X5R; CERAMIC;
8	C29	-	1	C0402X7R500-222KNE; GRM155R71H222KA01; C1005X7R1H222K050BA	VENKEL LTD.;MURATA;TDK	2200PF	CAP; SMT (0402); 2200PF; 10%; 50V; X7R; CERAMIC
9	C30	-	1	C0603C104K8RAC	KEMET	0.1UF	CAP; SMT (0603); 0.1UF; 10%; 10V; X7R; CERAMIC
10	C31	-	1	C3216X5R1C476M160AB; GRM31CR61C476ME44	TDK;MURATA	47UF	CAP; SMT (1206); 47UF; 20%; 16V; X5R; CERAMIC
11	C32	-	1	C3216X5R1H106K160AB; GRM31CR61H106KA12	TDK;MURATA	10UF	CAP; SMT (1206); 10UF; 10%; 50V; X5R; CERAMIC
12	C33	-	1	C1608X5R1H104K080AA	TDK	0.1UF	CAP; SMT (0603); 0.1UF; 10%; 50V; X5R; CERAMIC
13	C34	-	1	GRM188R60J105KA01	MURATA	1UF	CAP; SMT (0603); 1UF; 10%; 6.3V; X5R; CERAMIC; DIODE; LED; SMT (0603); Vf=1.7V; lf(test)=0.002A;
14	DS1-DS4, DS10	-	5	LG L29K-G2J1-24	OSRAM	LG L29K-G2J1-24	-40 DEGC TO +100 DEGC
15	J1, J21	-	2	ZX62D-B-5P8	HIROSE ELECTRIC CO LTD.	ZX62D-B-5P8	CONNECTOR; MALE; SMT; MICRO UNIVERSAL SERIES BUS B-TYPE CONNECTOR; RIGHT ANGLE; 5PINS CONNECTOR; MALE; TH; SINGLE ROW;
16	J2	-	1	800-10-002-10-001000	MILLMAX	800-10-002-10-001000	STRAIGHT; 2PINS
17	J3, J4, J10-J12, J14-J16, J20, J22, J23	-	11	PBC02SAAN	SULLINS ELECTRONICS CORP.	PBC02SAAN	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 2PINS CONNECTOR: MALE: THROUGH HOLE: BREAKAWAY:
18	J5, J18, J39	-	3	PBC03SAAN	SULLINS	PBC03SAAN	STRAIGHT; 3PINS; -65 DEGC TO +125 DEGC
19	J6-J9	-	4	TSW-104-07-L-S	SAMTEC	TSW-104-07-L-S	EVKIT PART-CONNECTOR; MALE; THROUGH HOLE; TSW SERIES; SINGLE ROW; STRAIGHT; 4PINS
20	J13	-	1	PBC06DBAN	SULLINS ELECTRONICS CORP.	PBC06DBAN	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; RIGHT ANGLE; 12PINS; 12PINS - ALTERNATE PIN NUMBERING
21	L1, L2	-	2	DFE201610E-2R2M	токо	2.2UH	INDUCTOR; SMT (2016); METAL ALLOY CHIP; 2.2UH; TOL=+/-20%; 2.6A
22	MH1-MH4	-	4	9032	KEYSTONE	9032	MACHINE FABRICATED; ROUND-THRU HOLE SPACER; NO THREAD; M3.5; 5/8IN; NYLON SWITCH; SPST; THROUGH HOLE; 24V; 0.05A; TACTILE
23	PB1	-	1 5	1825910-6 CRCW0402499RFK	TE CONNECTIVITY	1825910-6	SWITCH; RCOIL=0 OHM; RINSULATION=100M OHM; TE CONNECTIVITY
25	R1, R17, R18, R21, R37 R2	-	1	CRCW0402499RFK CRCW040215K0FK	VISHAY DALE VISHAY DALE	15K	RES; SMT (0402); 499; 1%; +/-100PPM/DEGC; 0.0630W RES; SMT (0402); 15K; 1%; +/-100PPM/DEGC; 0.0630W
26	R3, R19, R20, R49, R53	-	5	RC0402FR-0710KL	YAGEO PHICOMP	10K	RES; SMT (0402); 10K; 1%; +/-100PPM/DEGC; 0.0630W
27	R4, R6, R7, R9, R10, R12, R13,	-	13	ERJ-2GEJ104	PANASONIC	100K	RES; SMT (0402); 100K; 5%; +/-200PPM/DEGC; 0.1000W
28	R15, R45, R46, R48, R50, R57 R5, R8, R11, R14	-	4	ERJ-2RKF1001	PANASONIC	1K	RES; SMT (0402); 1K; 1%; +/-100PPM/DEGC; 0.1000W
29	R31, R63		2	PV36Y105C01B00	MURATA	1M	RESISTOR; THROUGH-HOLE-RADIAL LEAD; PV36 SERIES; 1M OHM; 10%; 100PPM; 0.5W; TRIMMER POTENTIOMETER; 25 TURNS; MOLDER CERAMIC OVER METAL FILM
30	R51	-	1	ERJ-2GE0R00	PANASONIC		RES; SMT (0402); 0; JUMPER; JUMPER; 0.1000W
31	R52	-	1	ERJ-2RKF5100	PANASONIC VISHAY DALE		RES; SMT (0402); 510; 1%; +/-100PPM/DEGC; 0.1000W
32	R54, R56	-	1	WSL0805R1000FEA18 3296Y-1-253LF	BOURNS	0.1 25K	RES; SMT (0805); 0.1; 1%; +/-75PPM/DEGC; 0.1250W RESISTOR; THROUGH-HOLE-RADIAL LEAD; 3296 SERIES; 25K OHM; 10%; 100PPM; 0.5W; SQUARE TRIMMING POTENTIOMETER; 25 TURNS; MOLDER CERAMIC
							OVER METAL FILM
	R59	-	1	ERJ-2RKF1152 CRCW04023K40FK	PANASONIC VISHAY DALE	11.5K 3.4K	RES; SMT (0402); 11.5K; 1%; +/-100PPM/DEGC; 0.1000W
35 36	R61 R62		1	ERJ-2RKF3902X;	VISHAY DALE PANASONIC;VISHAY DALE	3.4K 39K	RES; SMT (0402); 3.4K; 1%; +/-100PPM/DEGC; 0.0630W
	TP7-TP10, VHC	-	5	CRCW040239K0FK 5000	KEYSTONE	N/A	RES; SMT (0402); 39K; 1%; +/-100PPM/DEGC; 0.0630W TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; RED; PHOSPHOR BRONZE WIRE SILVER
	TP11-TP13, TP16, TP22-TP33	-	16		KEYSTONE	N/A	PLATE FINISH; TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH:
39	U1	-	1	MAX14745AEWX+	MAXIM	MAX14745AEWX+	IC; PMIC; PMIC WITH ÚLTRA LOW IQ VOLTAGE REGULATOR AND BATTERY CHARGER FOR SMALL LITHIUM
40	U2	-	1	OPA569AIDWPR	TEXAS INSTRUMENTS	OPA569AIDWPR	ION SYSTEM; WLP36 IC; AMP; RAIL-TO-RAIL I/O; POWER AMPLIFIER; WSOIC20-EP 300MIL
41	U3	-	1	MAX8880EUT+	MAXIM	MAX8880EUT+	WSOIC20-EP 300MIL IC; VREG; ULTRA-LOW-IQ LOW-DROPOUT LINEAR REGULATOR WITH POK; SOT23-6
42	U4	-	1	NC7WZ07P6X	FAIRCHILD SEMICONDUCTOR	NC7WZ07P6X	IC; BUF; TINY LOGIC ULTRA-HIGH SPEED DUAL
43	PCB	-	1	MAX14745SYS	MAXIM	PCB	BUFFER; SC70-6 PCB:MAX14745SYS
44	MAXPICO	DNI	1	MAXPICO2PMB#	MAXIM	MAXPICO2PMB#	ACCESSORY; BRD; PACKOUT; MAXPICO2PMB
45	USBCABLE1, USBCABLE2	DNI	2	3025010-03	QUALTEK ELECTRONICS CORP	3025010-03	ADAPTER BOARD CONNECTOR; MALE; USB-A_MINI-B; USB 4P(A)/M - USB MINI 5P(B)/M; STRAIGHT; 36IN
46	Q1	DNP	0	SI8429DB-T1-E1	VISHAY	SI8429DB-T1-E1	TRAN; P-CHANNEL 8V (D-S) MOSFET; PCH; SMT; PD-(6.25W); I-(-11.7A); V-(-8V)
TOTAL			136				
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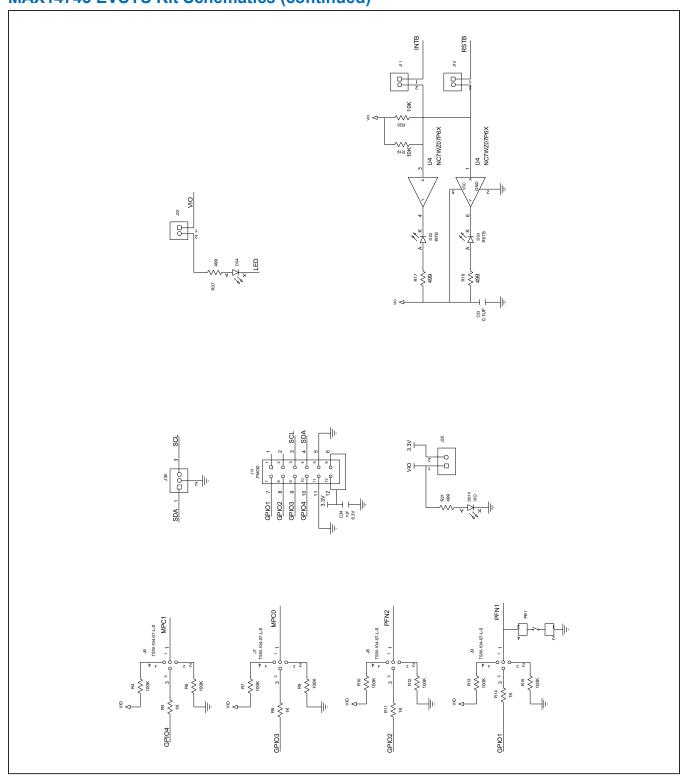
Evaluates: MAX14745

MAX14745 EVSYS Kit Schematics



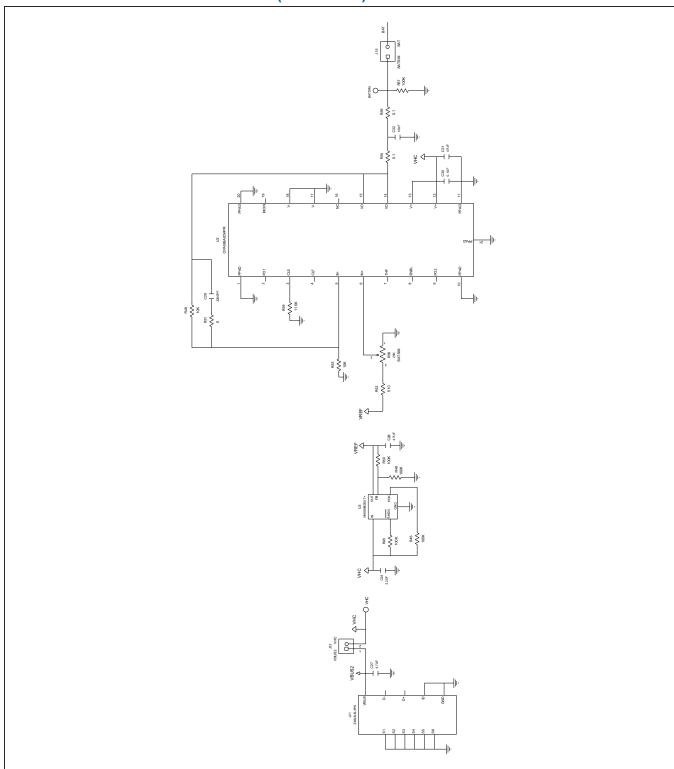
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MAX14745 EVSYS Kit Schematics (continued)



Evaluates: MAX14745

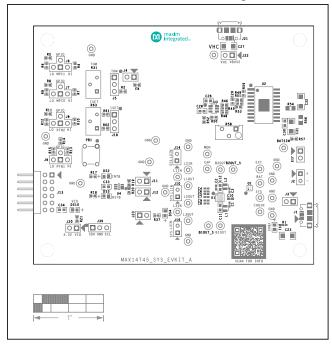
MAX14745 EVSYS Kit Schematics (continued)



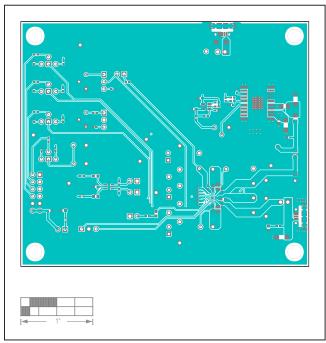
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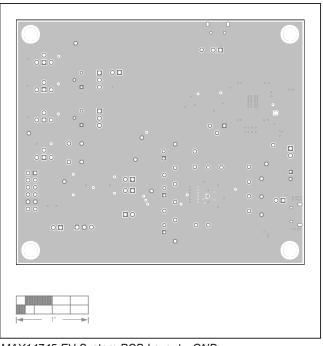
MAX14745 EVSYS Kit PCB Layouts



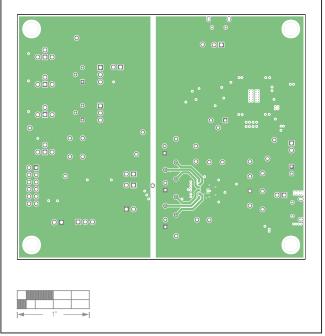
MAX14745 EV System PCB Layout—Silk Top



MAX14745 EV System PCB Layout—Top



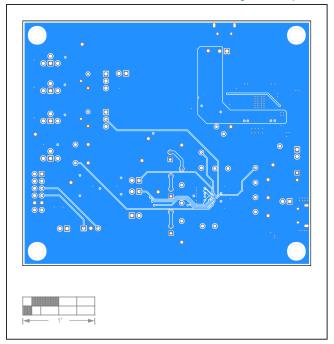
MAX14745 EV System PCB Layout—GND



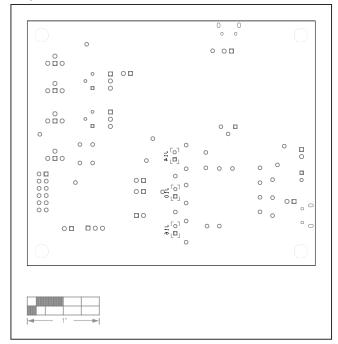
MAX14745 EV System PCB Layout—SYS

Evaluates: MAX14745

MAX14745 EVSYS Kit PCB Layouts (continued)



MAX14745 EV System PCB Layout—Bottom



MAX14745 EV System PCB Layout—Silk Bottom

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	11/21	Initial Release	_

Evaluates: MAX14745