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Installing the ADP5080 Evaluation Board Hardware and Software

FEATURES

Wide input voltage range: 4.0 V to 15 V High efficiency architecture Up to 2 MHz switching frequency 5 synchronous buck regulators 1 synchronous buck boost regulator 2 keep alive low dropout (LDO) regulators 1 high voltage LDO regulator 72-ball, 4.5 mm × 4.0 mm WLCSP package Available changing registers/settings by software

EVALUATION KIT CONTENTS

ADP5080CB-1-EVALZ board USB-SDP-CABLEZ I²C dongle USB-SDP-CABLEZ I²C connection cable USB-SDP-CABLEZ I²C dongle hardware

REQUIRED SOFTWARE

ADP5080 DEMO GUI ADI SDP Drivers 1.4.10.0

INTRODUCTION

The **ADP5080 DEMO GUI** software allows the user to control all registers of the ADP5080. When used with the ADP5080CB-1-EVALZ, this software allows complete programmability of all channels of the ADP5080, including output voltage, switching frequency, start-up sequence, fault protection, and turning individual channels on and off.

Complete specifications on the ADP5080 are available in the product data sheet. Consult the data sheet in conjunction with this user guide when using the evaluation board.

For more information about operating the ADP5080 evaluation board, see the ADP5080CB-1-EVALZ user guide.



EVALUATION BOARD PHOTOGRAPH

Figure 1.

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REVISION HISTORY

4/15—Revision 0: Initial Version

EVALUATION BOARD HARDWARE HARDWARE INSTALLATION

The evaluation kit contains the ADP5080CB-1-EVALZ board (see Figure 1), a USB-SDP-CABLEZ I²C dongle (see Figure 2), a USB-SDP-CABLEZ I²C connection cable, and USB-SDP-CABLEZ I²C dongle hardware.



Figure 2. USB-SDP-CABLEZ I²C Dongle

Use the USB-SDP-CABLEZ I²C dongle hardware provided for this graphical user interface (GUI) application, and follow these steps to install the dongle hardware:

 Attach the USB-SDP-CABLEZ I²C dongle to the PC USB port. The operating system automatically finds the new device (USB-SDP-CABLEZ I²C dongle), and a desktop alert in the notification area confirms that the driver software installed successfully (see Figure 3).



Figure 3. Device driver software installed successfully Notification

 To verify that the USB-SDP-CABLEZ installed properly, go to the Start menu, click Control Panel, then click Device Manager (see Figure 4). Note that Figure 4 is from Windows* 7.



Figure 4. Control Panel/All Control Panel Items Window to Select Device Manager

3. Within **Device Manager**, expand **ADI Development Tools** to verify that **USB-SDP-CABLEZ** is shown (see Figure 5). If **USB-SDP-CABLEZ** appears under **Device Manager**, this verifies that the **USB-SDP-CABLEZ** I²C dongle is properly connected to the USB port and that the hardware installation is complete. The user can begin operation of the evaluation system.



Figure 5. Device Manager Window

Attach the USB-SDP-CABLEZ I²C connection cable from the USB-SDP-CABLEZ to the corresponding evaluation board pin connector, P4, then click the **ADP5080 DEMO GUI** program icon located on the desktop (see Figure 6) to launch the GUI program. If the icon is not on the desktop, go to the **Start** menu, then click **Programs**, and then click **Analog Devices ADP5080** (see Figure 7).



Figure 6. ADP5080 DEMO GUI Icon

ADP5080 Getting Started Guide



Figure 7. Start\All Programs Menu

See the Software Operation section for additional information on the **ADP5080 DEMO GUI** program.

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EVALUATION BOARD SOFTWARE

SOFTWARE INSTALLATION

To install the necessary software, complete the steps listed in the ADP5080 Evaluation Board GUI Software (ADP5080 DEMO GUI) Installation section and the Analog Devices, Inc., SDP Drivers Installation section, respectively.

ADP5080 Evaluation Board GUI Software (ADP5080 DEMO GUI) Installation

1. Download the **ADP5080 Evaluation Board GUI Software Installation** file from the **Software and Tools** section at www.analog.com/EVAL-ADP5080 (see Figure 8).



Figure 8. ADP5080 Evaluation Board Product Page

2. Click **Save**, to save the **ADP5080_DemoGUI.zip** file to the desktop (see Figure 9).



Figure 9. File Download Window

 Allow several minutes for the download to complete (see Figure 10). The download includes the ADP5080 Evaluation Board GUI Software Installation file and the ADI SDP Drivers 1.4.10.0 file in one bundle (see the Analog Devices, Inc., SDP Drivers Installation section).

٩	
ADP5080_DemoGU	I.zip from www.analog.com
Estimated time left: Download to: Transfer rate:	8 min 31 sec (16.8MB of 387MB copied) C:\Users\DJUSSAU\ADP5080_DemoGUI.zip 743KB/Sec
Close this dialo	g box when download completes
	Open Open Folder Cancel

Figure 10. Percent Completed Window

4. When the download completes, click **Open Folder** to open the **ADP5080_DemoGUI.zip** folder (see Figure 11).

Download comp	nload Complete
ADP5080_Demo	GUI.zip from www.analog.com 338MB in 12 min 20 sec
Download to: Transfer rate:	C:\Users\DJUSSAU\ADP5080_DemoGUI.zip 463KB/Sec
Close this dia	alog box when download completes Open Open Folder Close

Figure 11. Download complete Window

5. Run the **setup.exe** executable (see Figure 12).

anze · Extract al files							ji • 🖬 0
Favortes	A Name -	Type	Conpressed	Fassword p.	500	Rutito -	Date notified
Cesktap	i te	File folder					1/10/2014 10:00 AM
2 Downloads	li keret	File folder					1/10/0014 10:00 AM
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Conuments	setup.exe	Application	1,94248	No	1,382 (8	3%	1/20/2012 10:29 AM
an anusic	es.quites [6]	Configuration se	412	No	1418	71%	1/10/2014 10:00 AM
Pictures H Videos							

Figure 12. ADP5080_DemoGUI.zip Folder Window

6. When prompted, select the primary installation directory, use the default values, and click **Next** (see Figure 13).

Destination Directory Select the primary installation directory. All software will be installed in the following locations. To install software into a different locations, click the Browse button and select another directory.	Destination Directory Select the primary installation directory. All software will be installed in the following locations. To install software into a different locations, click the Browse button and select another directory. Directory for ADPS080 DEMO GUI Version WV2 03 CVPlogue Files b66(ADPS080_DEX) Directory for National Instruments products CVPlogue Files 166(National Instruments) Browse_	DEMID GUT VERSION WYZJU3			_
All software will be installed in the following locations. To install software into a different locations, click the Browse button and select another directory.	All software will be installed in the following locations. To install software into a different locations, click the Browse button and select another directory.	Destination Directory Select the primary installation directory.			
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- Directory for ADP5080 DEMO GUI Version WV2.03	Directory for ADP5080 DEMO GUI Version WV2.03 C-Program Files (466)ADP5080_D-EX Directory for National Instruments products C-Program Files (465)National Instruments File (465)National	All software will be installed in the following location locations, click the Browse button and select anoth	ins. To install software in her directory.	to a different	
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	Directory for National Instruments products CVPlogram Files (#8)National Instruments\ Erowse.	Directory for ADP5080 DEMO GUI Version WV2 C-Program Files (#6(ADP5080_D/2))	03	Browse	
	C-VPlogram Files (x86)/National Instruments\ Browse.	Directory for ADP5080 DEMO GUI Version WV2 C Program File: p46%ADP5080_D-8.3	03	Browse]
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Directory for National Instruments products C Phogram Files (MS)/National Instrument/ Browse		Directory for ADP5080 DEMO GUI Version WV2 C ¹ Program Film (466)ADP5080_D-2(\ Directory for National Instruments products C ¹ Program Film (465) National Instruments\	03	Browse	

Figure 13. Destination Directory Window

 Use the default values to start the installation of the ADP5080 DEMO GUI (see Figure 14). Click Next to begin the installation.

Start Installation Review the following summi	ary before continuing.			
Adding.or.Changing ADP5080 DEM0 GUI Version WV2.03	3 Files			
Run Time Support				
ck the Next button to begin installation.	Click the Back button to	change the installa	tion settings.	

Figure 14. Start Installation Window

8. Allow the ADP5080 DEMO GUI installation to run (see Figure 15).

ADP5080 DEMD GUI Version WV2.03		an x
Overall Progress: 38% Complete		
Copying new files		

Figure 15. Overall Progress Window

9. Click **Next** and then **Finish** to complete the GUI software installation (see Figure 16).



Figure 16. Installation Complete Window

Analog Devices, Inc., SDP Drivers Installation

After the ADP5080 DEMO GUI software installs, the **ADI SDP Drivers 1.4.10.0 Setup Wizard** runs automatically (see Figure 17). The Analog Devices SDP platform drivers support the USB-SDP-CABLEZ I²C dongle hardware. Use the default settings throughout the installation process. To install the Analog Devices SDP drivers, follow these steps:



Figure 17. ADI SDP Drivers 1.4.10.0 Setup Window

1. Use the default install location found under **Destination Folder** and then click **Install** (see Figure 18).

ADI SDP Drivers 1.4.10.0 Se	tup			-0	
hoose Install Location					
Choose the folder in which to	install ADI SDF	Drivers 1.4.1	0.0.		
Setup will install ADI SDP Driv folder, click Browse and select	ers 1.4.10.0 in : another folder	the following . Click Install I	folder. To ins to start the ir	stall in a diffension.	erent
Destination Folder					
Destination Folder	Devices\SDP\Dr	ivers		Browse]
Destination Folder El\Program Files\Analog Space required: 240.0MB	Devices\SDP\Dr	ivers]	Browse	
Destination Folder Cliprogram Files(Analog 1 Space required: 240.0MB Space available: 176.4GB	Devices\SDP\Dr	ivers		Browse	
Destination Folder EXProgram Files/Analog I Space required: 240.0MB Space available: 176.4GB Isoft Install System v2.46	Devices(SDP(Dr	lvers		Browse	

Figure 18. Choose Install Location Window

2. Allow the Analog Devices SDP drivers file to install (see Figure 19).

ADI SUP Univers 1.4.10.0 Setup		
Installing Please wait while ADI SDP Drivers 1.4.10	.0 is being installed.	()
Execute: C:\Users\djussau\AppData\Loca	al\Temp\dotnetfx35.exe /qui	et /norestart
Show details		
ullsoft Install System v2.46		
	of Database State	A h Cancal

Figure 19. Installing Window

3. When the installation completes, click **Finish** to close the setup wizard (see Figure 20).

Completing the A 1.4.10.0 Setup Wi ADI SDP Drivers 1.4.10.0 has computer. Click Finish to close this wizard	DI SDP Drivers zard been installed on your
< Back	Finish Cancel

Figure 20. Completing the ADI SDP Drivers 1.4.10.0 Setup Wizard Window

ADP5080 Getting Started Guide

SOFTWARE OPERATION

The main window of the **ADP5080 DEMO GUI** program has a tabbed page structure that changes control of the device between the channels tab, the configuration tab, and the history tab (see Figure 21 to Figure 23). Use these tabulators shown in the main window of the **ADP5080 DEMO GUI** program to select the corresponding register sections.

Use the following options to operate the **ADP5080 DEMO GUI** program:

- Control the EN signal of the device with the EN and EN34 buttons (see Figure 21 to Figure 23).
- Select the **RDST** option to enable the RDST readback mode, which affects only those registers that use the RDST read protocol (see Figure 21 to Figure 23).
- To write data to a register address, enter the hexadecimal (hex) value in the **Reg Addr** box and the **Data** box and then click **WRITE**.
- To read data from a selected register, enter the register or hexadecimal address and click **READ**. The data value readback from the device displays in the **Data** box (see Figure 21 to Figure 23).

- Click **Continuous Read** to poll and read all registers continuously when updating data values of the corresponding display beside every register line (see Figure 21 to Figure 23).
- To stop the program from running, click **STOP** (see Figure 21 to Figure 23).
- Write setup to device under test (DUT) by selecting the desired setup from the slide boxes (the pull-down menus indicated with a triangle), or by selecting bits. Click the **Program 0x01** to **Program 0x23** buttons to make changes to each register, which then writes the appropriate data to the device (see Figure 21).
- To update the corresponding readback memory on the device register display, click the appropriate **Read 0x01** to **Read 0x23** buttons (see Figure 21).

Channels Tab

This tab controls the fundamental operation of each channel, including the soft start time, the enable delay time, the disable delay time, the output voltage, turning the discharge switch on and off, and turning each channel on and off.

ANALOG DEVICES	HID	· Zano	5	PRIM	- 11.24	55	Restore Defaults	Read All Registers	Reg Adds Det	WRITE	READ
ADP508	Config Histor	y				RDST 🕥	EN ENB4 HI LO	Continuous Read	QC Status Idle	_	STOP
	7	6	5	4	3	2	1	0			
		DSCG7	DSCG6	DSCG5	OSCG4	DSCG3	DSCG2	DSCG1	Program 0x01	Read Ball	7F
	SoftStart4	8 ms 🕁	SoftStart3	1ms 🕁	SoftStart2	1 ms $_{ abla}$	SoftStart	1 1 ms 🖵	Program 0x02	Read 0x82	CO
	f.		SoftStart7	2 ms 😽	SoftStartő	Zms 😽	SoftStart	5 8 ms 🔫	Program 0x03	Read 0x03	7
	J		H2 Enable Delay	2 ms 🧮			CH1 Enable Dela	y Oms 🧮	Program 0x04	Read Bull4	10
	J	(H4 Enable Delay	0 ms 🦐			CH3 Enable Dele	y Oms 😽	Program 0x05	Read Bull5	0
		C	H6 Enable Delay	4 ms 🛛 🛫			CHS Enable Dela	y 4 ms 🕁	Program 0x06	Read Bulli	22
							CH7 Enable Dela	y 6 ms 🥁	Program 0x07	Read 0x87	3
	1	a	12 Disable Delay	Oms 🐨			CH1 Disable Dela	y 12 ms	Program 8x88	Read 0x08	3
	J	a	14 Disable Delay	0 ms - 🐨			CH3 Disable Dela	y Oms 🤝	Program 8x89	Read 0x09	0
		0	16 Disable Delay	Oms 🥁			CH5 Disable Dela	y Oms 🥁	Program Bx8A	Read BxBA	0
							CH7 Disable Dela	y Oms 🦁	Program 0x08	Read BullB	0
							CHT AONL	1 0.80¥ 😴	Program 0x0C	Read 0x8C	1F
			CH3 VOUT3	Adj 👾			CH2 VOUT	2 1.89 🗸	Program 8x80	Read BxBD	74
	,		CHS VOUTS	3.3V 🛫			CH4 YOUT	4 Adj 🥣	Program 0x0E	Read Bx8E	37
	J						CH6 YOUT	6 Adj 🚽	Program 0x0F	Read Bolf	F
	<u>, 11</u>	LDO2 VOUT	3.3V 🔻	5.0V	LDO1 VOUT		CH7 YOUT	7 SV 🚽	Program 0x10	Read 0x10	13
		AVS2_INTVAL	32 us	16 us 🔻	AVS1_INTVAL		EN_AVS2	EN_AVS1	Program 0x11	Read Roll	0
	SEL FSW	1	FREQ6	FREQS	J FREQ4	J FREQ3	FREQ2	- FREQ1	Program 0x12	Read 0x12	3F
r WV2.03	1			EN_CLKO			FREQ C	P x1/4 🔻	Program 0x13	Read 0x13	11
	ORDST_PCTL	CH7 ON	CH5 ON	CH5 ON	CH4 ON	CHB ON	CH2 ON	CHI ON	Program 0x30	Read Bold	40
					REDUCE_	ODE DLY	DEN_CH4	EN_CHB	Program 0x23	Read Bx23	8

Figure 21. **Channels** Tab

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s	Config	History				RD31		Neso	June		_
	7	6	5	4	3	2	1	0			
Γ		Reverved	PHASE6	PHASES	PHASE4	O PHASES	PHAGE2	O PHASE1	Program 0x14	Read 0x14	0
Γ									Program 0x16	Read 0x16	0
Γ			UV_DLY<1>	● UV_DLY <0>			OV_DLY<1>	OV_DLY <0>	Program 0x17	Read 0x17	0
K	EN	PWRG7	PWRG6	PWRG5	PWRG4	PWRG3	PWRG2	PWRG1	Program 0x18	Read 0x18	0
I		PWR37	PWR36	PWR35	PWR34	PWR33	PWR32	PWR31	Program 0x19	Read 0x19	0
Î		UV7	UV6	UV5	UV4	UV3	UV2	UV1	Program 0x1A	Read 0x1A	0
Í			OV6	OV5	0¥4	OV3	OV2	OV1	Program 0x18	Read 0x1B	0
Í			Auto-PSM6	Auto-PSM5	Auto-PSM4	Auto-PSM3	Auto-PSM2	Auto-PSM1	Program 0x1C	Read 0x1C	0
Í		MODE_EN7	MODE_EN6	MODE_ENS	MODE_EN4	MODE_EN3	MODE_EN2	MODE_EN1	Program 0x10	Read 0x10	0
Í				Only BUCK6_			BOOST6_ vth<1>	● BOOST6	Program 0x1E	Read 0x1E	0
Î									Program 0x1F	Read 0x1F	0
í				DCM56				GATE_SCAL1	Program 0x20	Read 0x20	0
Î				SEL_INP_				SEL_INP_	Program 0x21	Read 0x21	0
Î			UV_DLY	5 0 ms 🔫	i i			SEL_IND_	Program 0x22	Read 0x22	0
1											,

Configuration (Config) Tab

The **Config** Tab shows the additional functions of each channel. This tab allows the user to select the switching phase and the bit status of UVx, OVx, and PWRGx.

To control the configuration settings, follow these steps:

- 1. Set values and click the corresponding **Program 0x14** to **Program 0x22** buttons to write data to the specific device register.
- 2. Click the corresponding **Read 0x14** to **Read 0x22** buttons to read back data from the specific device register.



Figure 23. History Tab

History Tab

Use the **History** tab to log all I²C register setups given to the device. To log all the I²C register setups given, follow these steps:

- 1. Click **Command History log Enabled** so that the command history appears on the left side of the screen.
- 2. Click **Write Command History to File** to save the command history as a .txt file to the desired disk location.
- 3. Click **Read and Run Commands From File** to start saved command retrieval from the selected file. All commands on the file are rewritten to the device in the same order in which they were originally saved.
- 4. Click **Clear Command History** to clear the screen. This command does not affect the saved files.

SOFTWARE UNINSTALLATION

To uninstall the **ADP5080 DEMO GUI** software, compete the following steps:

1. Go to the **Start** menu, click **Control Panel**, and then click **Programs and Features**.

🐺 Contro	I Panel All Control Panel Items						
00	😽 • Control Panel • All Control Pane	Dens			 Search Control Panel 	2	
Adjust	your computer's settings				View by Large icons 💌		
	Desktop Gadgets	4	Device Manager	10	Devices and Pvinters	-	
	Display	C	Ease of Access Center	۶	flash Player (32-bit)		
10	Folder Options	A	Fonts		Getting Started		
	HomeGroup	æ	Indexing Options	5	Intel(R) HD Graphics	1	
e	Internet Options	4	Java (32-bit)	•	Keyboard	l	
	Location and Other Sensors	٩	Mail (32-bit)	ð	Mouse	I	
群	Network and Sharing Center		Notification Area Icons		Performance Information and Tools	l	
5	Personalization	4	Phone and Modern	۲	Power Options	l	
ā	Programs and Features	Q	QuickTime (32-bit)	R	Recovery	l	
	Region and Programs and Peatures Computer.	on your	RemoteApp and Desktop Connections	0	Sound	l	
₿.	Speech Recognition	6	Symantec LiveUpdate (32-bit)	۲	Sync Center	l	
1	System	0	Taskbar and Start Menu		Troubleshooting		
92	User Accounts		Windows CardSpace	龃	Wandows Defender		122
1	Windows Firewall	ŋ	Windows Mobility Center	æ	Windows Update	*	2751-0
		_		_		-	

Figure 24. Control Panel/All Control Panel Items Window to Select Programs and Features

2. Select ADP5080 Demo GUI Version WV2.03 and click Uninstall.

🍯 🕞 • Control Panel • All Control Panel Items • Programs and Peatures • 😰 Search Program								2	
Control Panel Home	Uninstall or change a program								
View installed updates	To uninstall a program, select it from the list and the	en click.Uninstall, Change, or Re	pair.						
Turn Windows features on or off									
Instal a program from the network	Organize 💌 Uninstall						÷ =		
	Name -	Publisher	• Instal • Sce	• •	Version	•			
	ADI SOP Drivers 1.4.10.0	Analog Devices, Inc.	6/6/2014		1.4.10.0				
	7-2p 9.20 (x64 edition)	Igor Pavlov	11/26/2013	4.53 MB	9.20.00.0				
	Adobe Flash Player 11 ActiveX	Adobe Systems Incorporated	11/26/2013	8.78 MB	11.3.300.265				
	Adobe Reader X (10.1.0) MUI	Adobe Systems Incorporated	11/26/2013	487 MB	10.1.0	_			
	Elainstall R.E Version WV2.03	Analog Devices Inc.	6/6/2014	241 MB	1.0.26				
	8.53		11/26/2013						
	AFPL Ghostscript Fonts		11/26/2013						
	Attachmate Reflection for UNIX and OpenVMS 14.0	AttachmateWRQ	12/11/2013	58.9 MB	14.0.0346				
	Attachmate Reflection X 14.1	Attachmate	12/11/2013	97.3 MB	14.1.0133				
	Avental Connect	SonicWALL Avental	4/5/2014	4.61 MB	10.62.301				
	Cadence SP0/OrCAD 16.5	Cadence Design Systems, Inc.	11/26/2013		16.50.047				
	Cadence SP8/OrCAD 16.6	Cadence Design Systems, Inc.	11/26/2013		16.60.013				
	Osco WebEx Meetings	Cisco WebEx LLC	12/16/2013						
	Del Touchpad	ALPS ELECTRIC CO., LTD.	11/26/2013		8.1200.101.129				
	Digital Guardian Agent	Verdarys Inc.	2/25/2014		6.1.2.0924				
	Intel(R) PROSet/Wreless Software for Bluetooth(Intel Corporation	11/26/2013	57.5 MB	3.1.1306.0352				
	Intel® PROSet/Wireless Software	Intel Corporation	12/11/2013	414 MB	16.1.3				
	Java(TM) 6 Update 18	Sun Microsystems, Inc.	11/26/2013	97.1 MB	6.0.180				
	LiveUpdate 3.3 (Symantec Corporation)	Symanitec Corporation	11/26/2013		3.3.0.69				

Figure 25. Control Panel/All Control Panel Items\Programs and Features Window

3. Click **Yes** to complete the uninstallation.



Figure 26. Uninstall or change a program Window

NOTES

I²C refers to a communications protocol originally developed by Philips Semiconductors (now NXP Semiconductors).



ESD Caution

ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

Legal Terms and Conditions

By using the evaluation board discussed herein (together with any tools, components documentation or support materials, the "Evaluation Board"), you are agreeing to be bound by the terms and conditions set forth below ("Agreement") unless you have purchased the Evaluation Board, in which case the Analog Devices Standard Terms and Conditions of Sale shall govern. Do not use the Evaluation Board until you have read and agreed to the Agreement. Your use of the Evaluation Board shall signify your acceptance of the Agreement. This Agreement is made by and between you ("Customer") and Analog Devices, Inc. ("ADI"), with its principal place of business at One Technology Way, Norwood, MA 02062, USA. Subject to the terms and conditions of the Agreement, ADI hereby grants to Customer a free, limited, personal, temporary, non-exclusive, non-sublicensable, non-transferable license to use the Evaluation Board FOR EVALUATION PURPOSES ONLY. Customer understands and agrees that the Evaluation Board is provided for the sole and exclusive purpose referenced above, and agrees not to use the Evaluation Board for any other purpose. Furthermore, the license granted is expressly made subject to the following additional limitations: Customer shall not (i) rent, lease, display, sell, transfer, assign, sublicense, or distribute the Evaluation Board; and (ii) permit any Third Party to access the Evaluation Board. As used herein, the term "Third Party" includes any entity other than ADI, Customer, their employees, affiliates and in-house consultants. The Evaluation Board is NOT sold to Customer; all rights not expressly granted herein, including ownership of the Evaluation Board, are reserved by ADI. CONFIDENTIALITY. This Agreement and the Evaluation Board shall all be considered the confidential and proprietary information of ADI. Customer may not disclose or transfer any portion of the Evaluation Board to any other party for any reason. Upon discontinuation of use of the Evaluation Board or termination of this Agreement, Customer agrees to promptly return the Evaluation Board to ADI. ADDITIONAL RESTRICTIONS. Customer may not disassemble, decompile or reverse engineer chips on the Evaluation Board. Customer shall inform ADI of any occurred damages or any modifications or alterations it makes to the Evaluation Board, including but not limited to soldering or any other activity that affects the material content of the Evaluation Board. Modifications to the Evaluation Board must comply with applicable law, including but not limited to the RoHS Directive. TERMINATION. ADI may terminate this Agreement at any time upon giving written notice to Customer. Customer agrees to return to ADI the Evaluation Board at that time. LIMITATION OF LIABILITY. THE EVALUATION BOARD PROVIDED HEREUNDER IS PROVIDED "AS IS" AND ADI MAKES NO WARRANTIES OR REPRESENTATIONS OF ANY KIND WITH RESPECT TO IT. ADI SPECIFICALLY DISCLAIMS ANY REPRESENTATIONS, ENDORSEMENTS, GUARANTEES, OR WARRANTIES, EXPRESS OR IMPLIED, RELATED TO THE EVALUATION BOARD INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, TITLE, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS. IN NO EVENT WILL ADI AND ITS LICENSORS BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM CUSTOMER'S POSSESSION OR USE OF THE EVALUATION BOARD, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DELAY COSTS, LABOR COSTS OR LOSS OF GOODWILL. ADI'S TOTAL LIABILITY FROM ANY AND ALL CAUSES SHALL BE LIMITED TO THE AMOUNT OF ONE HUNDRED US DOLLARS (\$100.00). EXPORT. Customer agrees that it will not directly or indirectly export the Evaluation Board to another country, and that it will comply with all applicable United States federal laws and regulations relating to exports. GOVERNING LAW. This Agreement shall be governed by and construed in accordance with the substantive laws of the Commonwealth of Massachusetts (excluding conflict of law rules). Any legal action regarding this Agreement will be heard in the state or federal courts having jurisdiction in Suffolk County, Massachusetts, and Customer hereby submits to the personal jurisdiction and venue of such courts. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to this Agreement and is expressly disclaimed.

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