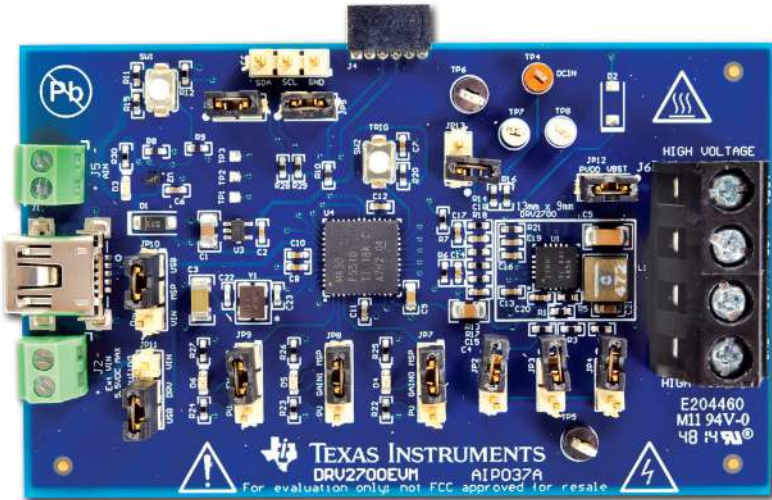


DRV2700EVM

Quick-Start Guide

➔ Start Here



Getting Started

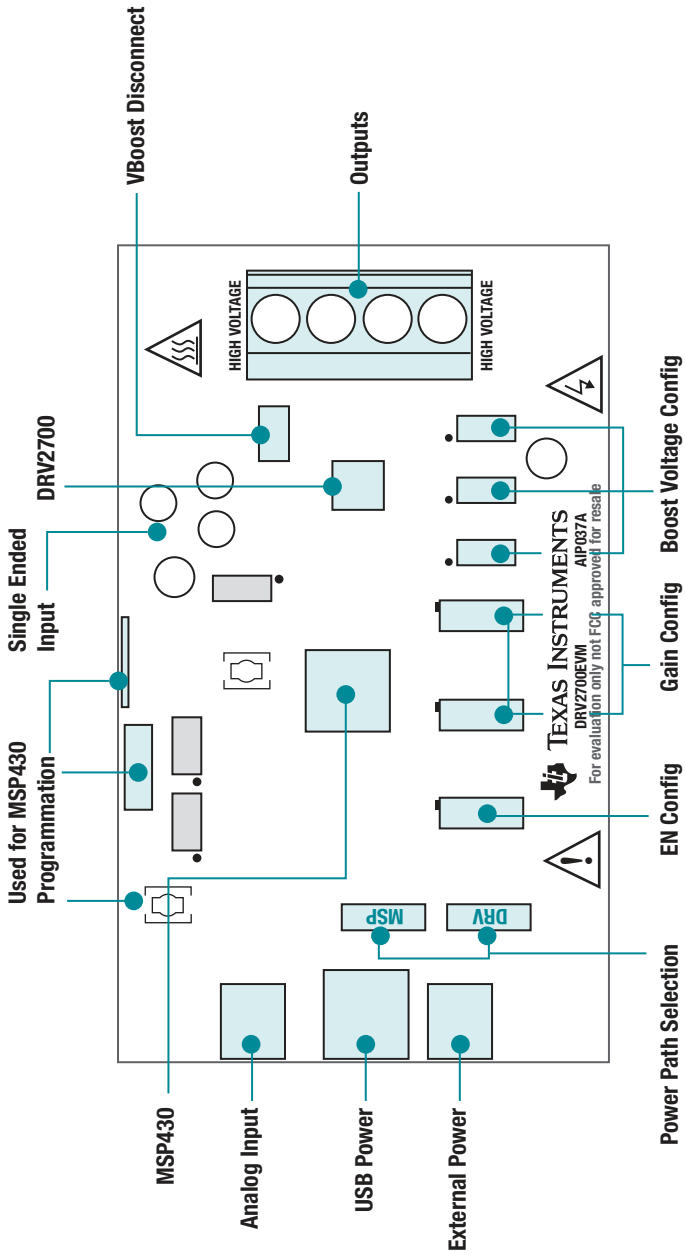
The DRV2700EVM comes with preprogrammed firmware to provide a 0- to 200-V_{pp} signal between OUT+ and OUT–.

1. Out of the box, the jumpers are set to begin demo mode using USB power. The default jumper settings are found in the table below.
2. Connect a mini-USB cable to the USB connector on the DRV2700EVM board.
3. Connect the other end of the USB cable to an available USB port on a computer, USB charger, or USB battery pack.
4. If the board is powered correctly, the 5-V LED is on.
5. Enable the output using the GUI or programmatically through the computer, see GUI Interface for additional assistance. If using an external input signal, EN the output by changing the jumper (JP9) or equivalent control signal.
6. Once the output is EN, the device allows for the high-voltage output.

Parameter	Jumper Setting	Default	Specification
JP10 MSP	Open		MSP not connected to either power supply
	USB (top) ⁽¹⁾	✓	MSP connected to USB power supply
	VIN (bottom) ⁽¹⁾		MSP connected to VIN power supply
JP11 DRV	Open		DRV2700 not connected to either power supply
	USB (top) ⁽¹⁾		DRV2700 connected to USB power supply
	VIN (bottom) ⁽¹⁾	✓	DRV2700 connected to VIN power supply
JP5 and JP6	Open		Disconnected PWM± and I/O of MSP430
	Connected	✓	Connected PWM± and I/O of MSP430
JP9-EN JP8-G1 JP7-G0	Open		EN/G1/G0 pulled internally to GND
	MSP (top) ⁽¹⁾	✓	EN/G1/G0 tied to I/O of MSP430
	PU (bottom) ⁽¹⁾		EN/G1/G0 pulled up to MSP power supply
JP13-DCIN	Open	✓	DC input not connected (PWM and AC input mode)
	Connected		DC input connected (single ended input mode)
JP12-VBST	Open		PVDD disconnected to VBST (boost only mode)
	Connected	✓	PVDD connected to VBST (normal operation)
I2C	Open		Always leave open. Never jumper together.
J2, J3, J4	Open		Disconnects particular FB resistor (lowers VBST)
	Connected	✓	Connects particular FB resistor (raises VBST)

⁽¹⁾ In the table, (top) or (bottom) means the (top) or (bottom) is connected to the middle of the 3-terminal header.

Quick Reference Board Diagram



Design Resources and References



**TI E2E™
Community**

E2E Haptic Forum

ti.com/hapticforum

Available on ti.com/drv2700

- DRV2700 datasheet
- Complete DRV2700EVM User's Guide
- Schematics and layout
- EVM source code and binaries

Get more information on TI's solutions for touch feedback-enabled applications at ti.com/haptics

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