

4 Jumper Settings

Jumper	Default Setting
J2	SINGLE PWM_TMP DUAL 
	3-pin header to choose between single sensor or dual sensor (daisy chain) connection for the PWM temperature sensors. Place jumper in 1-2 position to enable dual sensor daisy-chain mode.
J3	
	3-pin header to set logic signal levels for digital temperature sensors. Place in 1-2 for 5V interfacing. Place in 2-3 position to 3.3V interfacing.
J9	
	3-pin header for fan power supply. Place in 1-2 position to source external power from the power jack (J13). Place in 2-3 position to source 12V power from the DVK.

For support, please contact us at:

Online:www.cypress.com/go/support
Telephone (24x7): +1-800-541-4736 ext. 8 (USA) or +1-408-943-2600 ext. 8 (International)

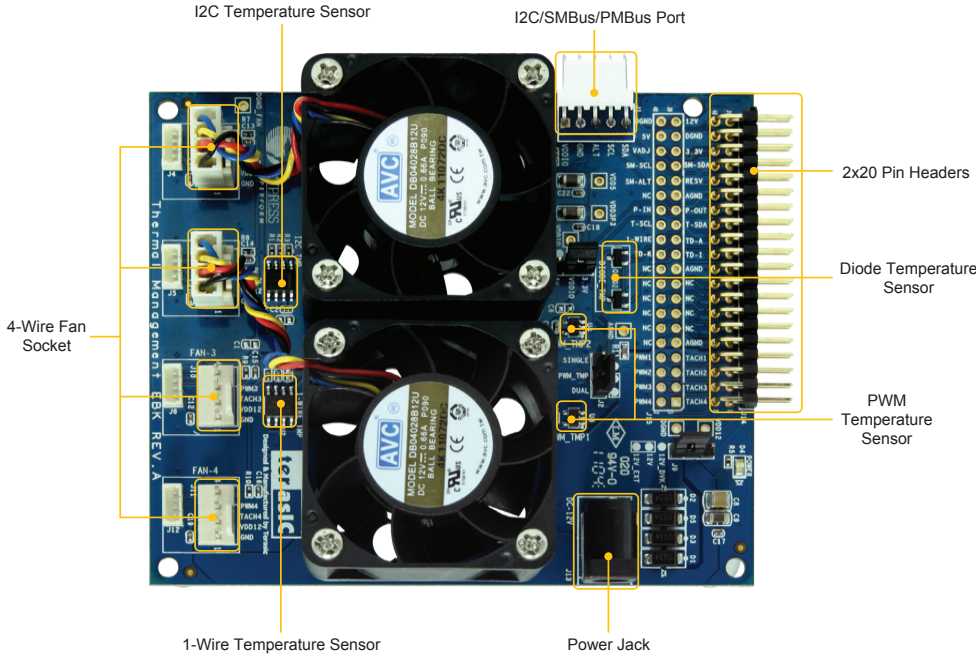
For additional information visit:
http://www.cypress.com/go/CY8CKIT-036 or http://tme.terasic.com

CPT-3076-01



PSoC Thermal Management Expansion Board Kit CY8CKIT-036

Quick Start Guide ▶▶▶



1 What's in the Box?



- 1 Cypress TME Board
- 2 Quick Start Guide
- 3 Power DC Adaptor 12V/2A
- 4 System CD

NOTE:
This kit requires one of the following kits to operate:
1.CY8CKIT-001 PSoC Development Kit
2.CY8CKIT-030 PSoC 3 Development Kit

http://tme.terasic.com
http://www.cypress.com/go/CY8CKIT-036

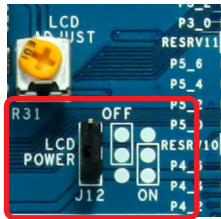
PSoC Thermal Management Expansion Board Kit

2 TME module installation CY8CKIT-001

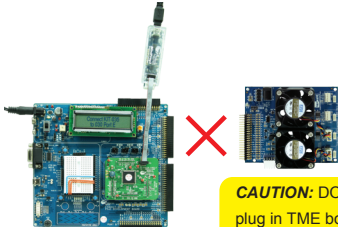
- 1 Insert the kit CD and install the kit software
 - View the User's Guide for detailed instructions
 - During the install, continue with hardware setup



- 3 Ensure LCD Power jumper (J12) is set to ON and the LCD display is plugged into the DVK

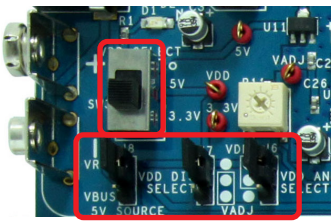


- 5 Program the PSoC Thermal Management Demo
 - Connect the Minipro3 to the PSoC 3 processor module.
 - Using the PSoC Programmer software, program the PSoC device with the "Thermal_Demo-001_rev1.hex" file located at "C:\Program Files\Terasic\PSoC Thermal Management EBK\1.0\Firmware\Hex_Files".

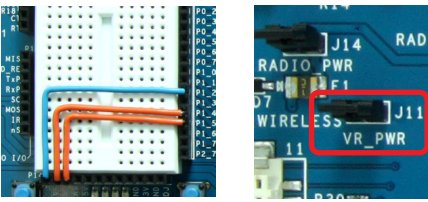


CAUTION: DO NOT plug in TME board-follow instructions in Step 6

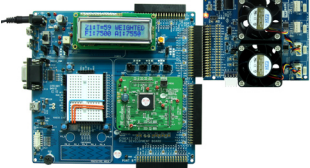
- 2 Set "VDD DIG" and "VDD ANLG" to 3.3V using SW3, J6 and J7 on the CY8CKIT-001



- 4 Connect VR to P1_2, SW1 to P1_4 and SW2 to P1_5 on the breadboard area of the CY8CKIT-001 and ensure J11 is set with a jumper.



- 6 Run the PSoC Thermal Management Demo
 - Remove power to the DVK, plug the TME EBK into Port A of the DVK and re-apply power to the DVK and EBK using the provided power adapter(s)
 - Use SW1 to navigate between the thermal management screens on the LCD
 - Refer to the User's Guide example 3 for project details and additional thermal management solutions

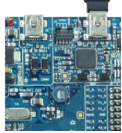


3 TME module installation CY8CKIT-030

- 1 Insert the kit CD and install the kit software
 - View the User's Guide for detailed instructions
 - During the install, continue with hardware setup

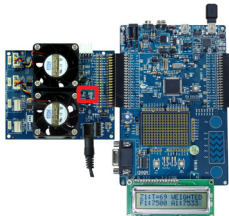


- 3 Program the PSoC Thermal Management Demo
 - Connect the USB cable to J1 on the CY8CKIT-030.
 - Using the PSoC Programmer software, program the PSoC device with the "Thermal_Demo-030_rev1.hex" file located at "C:\Program Files\Terasic\PSoC Thermal Management EBK\1.0\Firmware\Hex_Files".

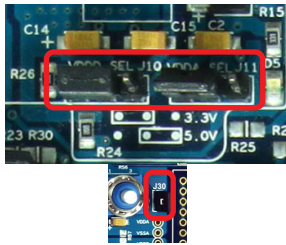


CAUTION: DO NOT plug in TME board-follow instructions in Step 4

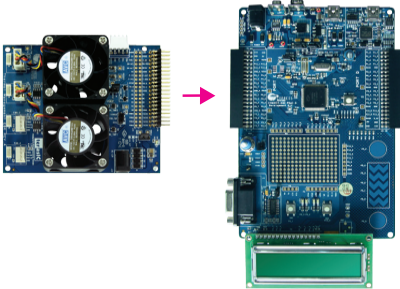
- 5 Select 12V_EXT with J9 in the 1-2 position on the TME EBK. Then plug in the 12V/2A power supply into the TME EBK at J13.Connect the USB cable to J1 on the CY8CKIT-030.



- 2 Set VDDD and VDDA to 3.3V by placing jumpers in 1-2 position of J10 and J11. Enable POT_PWR by installing a jumper on J30 of the CY8CKIT-030



- 4 Remove the USB cable from the CY8CKIT-030 and plug the TME EBK into Port E



- 6 Run the PSoC Thermal Management Demo
 - Use SW2 to navigate between the thermal management screens on the LCD
 - Refer to the User's Guide example 3 for project details and additional thermal management solutions.

