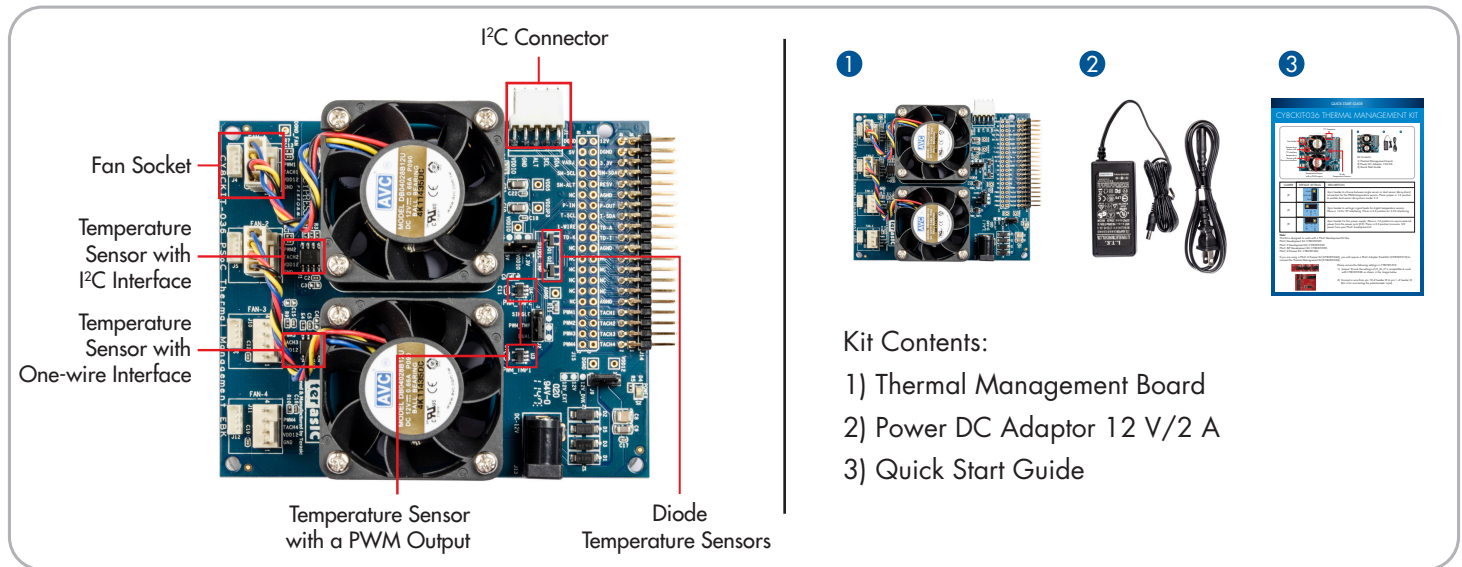
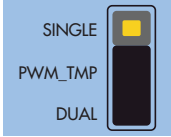
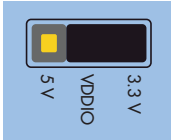
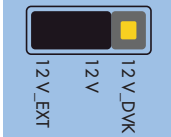


CY8CKIT-036 THERMAL MANAGEMENT KIT



Jumper	Default Setting	Description
J2		3-pin header to choose between a single-sensor or a 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 2-3 position for 3.3-V interfacing (and the kit projects)
J9		3-pin header for fan power supply. Place in 1-2 position to source external power from the power jack (J13)

Note:

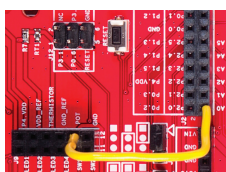
This Kit is designed to work with the following PSoC® Development Kits:

PSoC Development Kit: CY8CKIT-001	PSoC 5LP Development Kit: CY8CKIT-050
PSoC 3 Development Kit: CY8CKIT-030	PSoC 4 Pioneer Kit: CY8CKIT-042

If you are using a PSoC 4 Pioneer Kit (CY8CKIT-042), you will require a PSoC Adapter Shield Kit (CY8CKIT-019) to connect the Thermal Management Kit (CY8CKIT-036)

Please ensure the following settings in CY8CKIT-019:

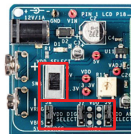
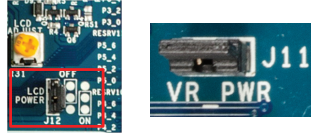
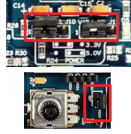
- 1) Jumpers: Ensure the settings of J5, J6, J7 are compatible with CY8CKIT-036, as shown in the image

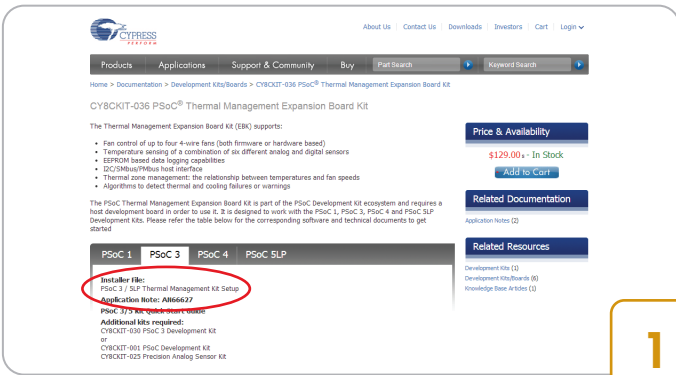


- 2) Connect a wire from pin 10 of header J9 to pin 1 of header J2 (this is to connect the potentiometer input)

PSoC® 1/PSoC 3/PSoC 5LP USERS

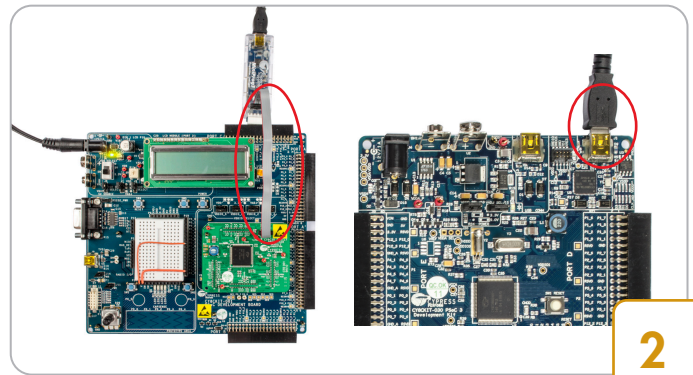
Before you start, check these settings in your PSoC Development Kit

If you are using:	Check for:	
CY8CKIT-001	Set 'VDD DIG' and 'VDD ANLG' to 3.3 V using SW3, J6 and J7 on the CY8CKIT-001. Set J8 to VREG	
	Ensure the LCD Power jumper (J12) is set to ON and the LCD is plugged into CY8CKIT-001. Connect jumper J11 to enable power to the potentiometer	
CY8CKIT-030 or CY8CKIT-050	Set 'VDDD' and 'VDDA' to 3.3 V by placing jumpers in the 1-2 position of J10 and J11. Enable POT_PWR by installing a jumper on J30 of the kit	



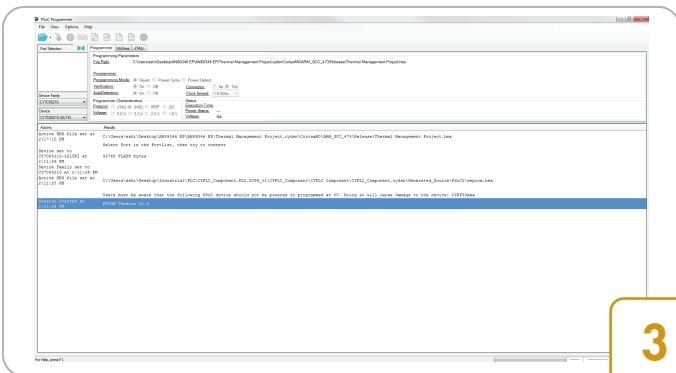
1

- Download and Install the latest kit software and examples from www.cypress.com/go/CY8CKIT-036



2

- Connect your Cypress Programmer
 - If you are using a CY8CKIT-001, connect the MiniProg3 to the PSoC processor module.
 - If you are using a CY8CKIT-030 (PSoC 3) or CY8CKIT-050 (PSoC 5LP), connect the USB cable to the onboard programmer



3

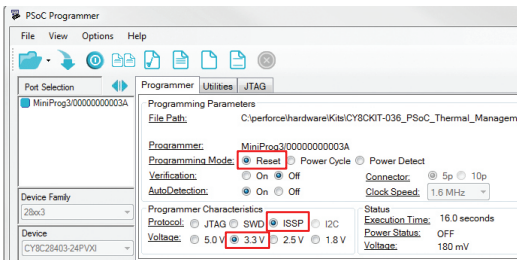
- Open the PSoC Programmer software in your computer
 - Go to Start > All Programs > Cypress > PSoC Programmer

Product Family	Development Kit	Hex File name	File Path
PSoC 1	CY8CKIT-001	CY8CKIT-001_P1.Hex	<Installation Directory>\PSoC 1 Thermal Management EBK\<version>\HexFiles
PSoC 3	CY8CKIT-030	CY8CKIT-030_P3.Hex	<Installation Directory>\PSoC3_5 Thermal Management EBK\<version>\HexFiles
	CY8CKIT-001	CY8CKIT-001_P3.Hex	
PSoC 5LP	CY8CKIT-050	CY8CKIT-050_P5LP.Hex	<Installation Directory>\PSoC3_5 Thermal Management EBK\<version>\HexFiles
	CY8CKIT-001	CY8CKIT-001_P5LP.Hex	

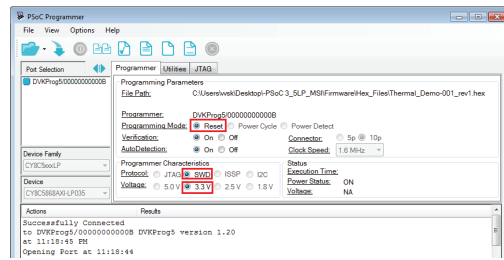
4

- Open the Thermal Management project hex file in the PSoC Programmer software
- Refer to the table above to select the correct hex file for your development kit

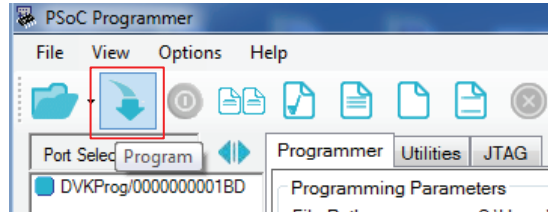
PSoC® 1 / PSoC 3 / PSoC 5LP USERS



Parameter settings for PSoC 1 Users



Parameter settings for PSoC 3 / PSoC 5LP



5

- Select the following parameters in the PSoC programmer:

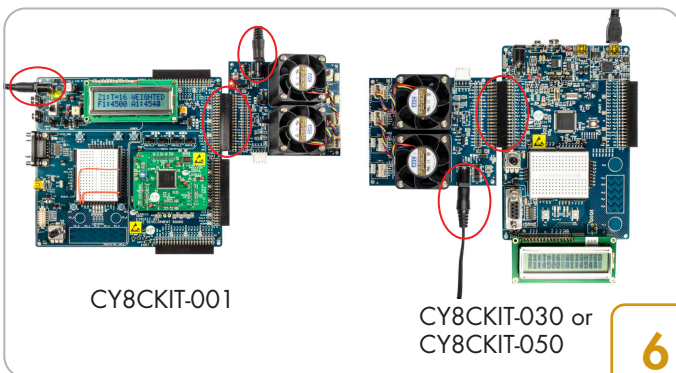
For PSoC 1 Users:

1. Programming mode as 'Reset'
2. Protocol as 'ISSP'
3. Voltage as '3.3 V'

For PSoC 3 / PSoC 5LP Users:

4. Programming mode as 'Reset'
5. Protocol as 'SWD'
6. Voltage as '3.3 V'

- Click the 'Program' button in the PSoC Programmer software
- The PSoC programmer will indicate successful programming in the status window



6

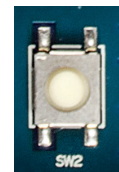
- Connect J14 of the CY8CKIT-036 to:
 - Port A of CY8CKIT-001
 - or
 - Port E of CY8CKIT-030 or CY8CKIT-050
- Connect the power cable to the kits



LCD Output



CY8CKIT-001



CY8CKIT-030 or
CY8CKIT-050

7

- View the output in the display showing the temperature reading and the fan speed
- Use SW1 (in CY8CKIT-001) or SW2 (in CY8CKIT-030/ CY8CKIT-050) to navigate between the thermal management screens on the LCD
- Refer to the User Guide to learn more about the kit and the solutions



- # 2

- 3

- 4

- 5

- 6

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