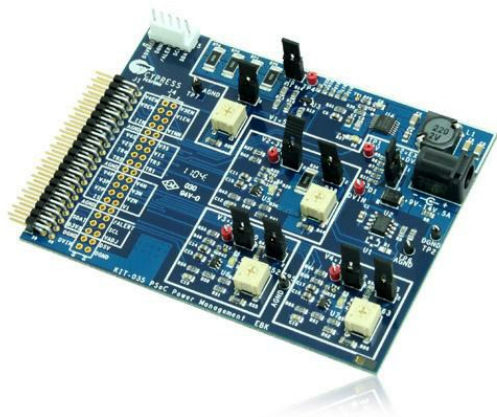# CY8CKIT-035 PSoC® Power Supervision Expansion Board Kit

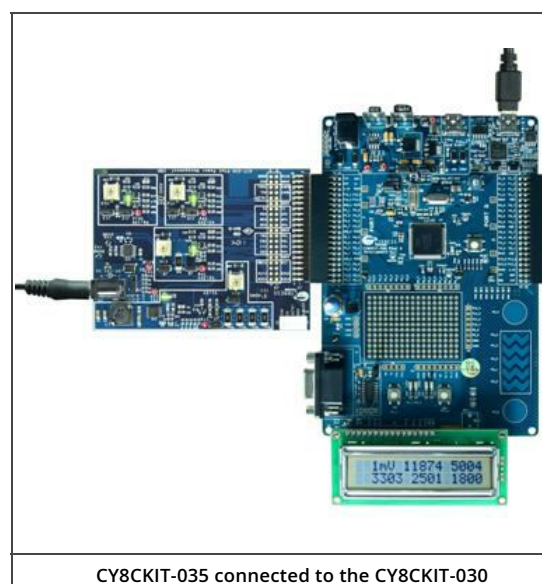**Last Updated:** Jan 25, 2018

The Power Supervision Expansion Board Kit (EBK) supports:

- Rapid fault detection capabilities for high-availability systems
- Accurate and reliable power rail sequencing of both power-on and power-off for four different power converters
- Voltage and current monitoring of four different power converters
- Trimming for closed-loop control of the power converters
- Margining of power converters for developmental test purposes
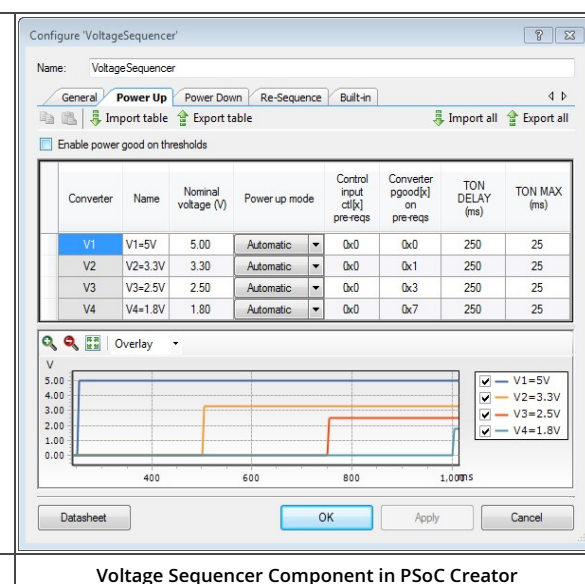- EEPROM based data logging capabilities
- I2C/SMbus/PMbus host interface

Cypress's PSoC Power Supervision solution delivers all of these capabilities, supporting the largest number of power converters in a single chip. In addition, this solution provides you with flexibility to customize this solution for your specific application and the ability to further integrate disparate functionality like fan control, reset-control logic, I2C level translators, etc.

The PSoC Power Supervision Expansion Board Kit enables you to evaluate Power Supervision functions and capabilities of the PSoC architecture. It is part of the PSoC development kit ecosystem and requires a host development board in order to use it. It is designed to work with the CY8CKIT-050 PSoC 5 Development Kit (sold separately) or the CY8CKIT-030 PSoC 3 Development Kit (sold separately). You can evaluate the example projects described in this guide or design and customize your own Power Supervision solution using components in Cypress's PSoC Creator™ software (included) or by altering example projects provided with this kit.

| CY8CKIT-035 connected to the CY8CKIT-030 | Voltage Sequencer Component in PSoC Creator |

With the flexibility of the PSoC architecture, you can easily create your own custom Power Supervision solution on chip with the exact functionality you need, in the way you want it – no more, no less.

PRICE & AVAILABILITY

RELATED RESOURCES

Development Kits/Boards (5)
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PSoC Programmer (1)
Development Kits (1)

RELATED PAGES

CY8C32xxx
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Note: For PSoC 1 power supervision example project using CY8CKIT-035, please click here.

This kit also includes the PSoC Power Supervision Tool, which allows configuring an extensive set of user-configurable parameters. These parameters can be read and set using the industry-standard PMBus protocol.

Software Title	Description	Link
PSoC Creator	This kit requires PSoC Creator for development	Download
PSoC Programmer	This kit requires PSoC Programmer for programming	Download

Related Files

File Title	Language	Size	Last Updated
🔒📄 Download CY8CKIT-035 Kit Only (Kit Design Files, Examples, Documentation)	English	24.11 MB	02/03/2017
📄 CY8CKIT-035 PSoC® 3 and PSoC 5LP Power Supervision Expansion Board Kit (EBK) Guide.pdf	English	6.05 MB	12/14/2015
🔒📄 Download CY8CKIT-035 Kit Setup (Kit Design Files, Designer, Programmer, Documentation, Examples) ⬇	English	629.91 MB	12/14/2015
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📄 CY8CKIT-035 Power Supervision Expansion Board Kit (EBK) Quick Start Guide.pdf	English	8.8 MB	12/14/2015
📄 CY8CKIT035 Code Examples	English	5.8 MB	12/14/2015
🔒📄 Download PSoC Power Supervision Tool ⬇	English	52.34 MB	08/31/2015
📄 CY8CKIT-035 Board Design Files (Schematic, Layout, Gerber, BOM)	English	1.17 MB	07/16/2015

Need help? Ask a question and find answers in the Cypress Developer Community Forums.

Low/intermittent bandwidth users tip: Firefox and Chrome browsers will allow downloads to be resumed if your connection is lost during download.

Related Resources

Development Kits/Boards	
CY8CKIT-001 PSoC® Development Kit	01/25/2018
CY8CKIT-030 PSoC® 3 Development Kit	01/29/2018
CY8CKIT-015 PSoC® 1 Power Supervision Kit (Free Download)	01/29/2018
PSoC® 3 Development Kits	02/15/2018
PSoC® 5LP Development Kits	02/16/2018

Application Notes - Obsolete	
AN60220 - PSoC® 3 / PSoC 5LP Multiplexed Comparator	08/01/2016

Other Resources	
PSoC 5 Ecosystem	03/06/2018

Application Notes	
AN78646 - Integrated Power Manager Using PSoC® 1	08/24/2015
AN76474 - PSoC® 3 Power Supervisor	07/28/2016

Video	
Introduction to PsoC® Power Management Board Kit	02/17/2015

PSoC Programmer	
How to Design with PSoC® 3, PSoC 4, and PSoC 5LP - KBA86521	05/31/2016

Development Kits	

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