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Isolation and Power

Overview

Isolators

ISOdrivers

ISOdriver Challenge

Current Sensors

Power Controllers

Power Over Ethernet Controllers

Si3452 PSE

Si3461 PSE

PSE Development Tools

Si3402 PD

Si3460 PSE

Si3480-82 PSE

24-port Power Manager
Reference Design and Evaluation Kit
SMARTPSE24-KIT

Hardware Overview

The SmartPSE24-KIT supports either a SPI or UART host interface and includes power management functions to simplify system design. Once configured via the provided graphical user interface (GUI) over the included USB to UART adapter, the board can run with or without host control. The board layout and connectors support attachment to third party Ethernet switch chipset vendor boards including 24-port and 48-port enterprise-class stackable switches, but it also operates as a fully standalone PSE evaluation system. The design features Six Si3452 devices, an Si3500 dc-dc converter, Si84xx isolators for UART, and an Si3482 power management controller to round out the PSE system.

Hardware and GUI Overview

The reference design GUI enables designers to easily configure, control and monitor the evaluation system via a SPI or UART interface connected to a host PC. The GUI is included, providing an easy-to-use visual display and control of the Si3482 power management controller. A serial packet protocol software development kit(SDK) is included, which enables rapid and simple porting to a host processor or microcontroller, and provides abstraction of the low-level protocol's commands and packet control. The SmartPSE24-KITs are available from Silicon Labs to enable rapid prototyping.

The SMARTPSE24-KIT includes:

24-port Midspan Reference Design

UART-to-USB communications board

Type 1 PD load

Type 2 PD load

All connectors and cables

Documentation CD

Contact your Silicon Labs Sales Representative for more information or to request a kit.

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