XS2184

Four channels, compatible with IEEE 802.3at/af, with built-in N-MOSFET Ethernet PSE Controller

Product Overview

XS2184 is a 4-ch Power Sourcing Equipment (PSE) power controller designed for IEEE® 802.3at/af compliant PSE. XS2184 has built-in N-MOSFET. This device provides Power Device (PD) detection, classification, current limiting, and load disconnection detection. It supports both automatic operation and software programming with the latest dual-event classification. Its single power supply delivers up to 30W per port and provides large capacitance detection for traditional PD designs.

I2C-compatible 3-wire serial interface for software configuration and programming offers real-time current and voltage readings for each port. Enhanced programmability increases design flexibility and provides field diagnostics for various non-standard system applications.

XS2184 has compact 48-pin QFN48L (0707 × 0.75 - 0.50)(H) power package, operating in an extended temperature range (from -40 °C to 105 °C).

Features

- Compatible with IEEE 802.3at/af
- Current sensing resistor of 0.25 Ω
- 9-bit real-time monitoring of port current and voltage
- Compatible with I2C and 3-wire serial port
- Supports independent power operation
- Large capacitance detection for legacy devices
- Supports DC load disconnection detection
- Built-in 100V_{DS} N-MOSFET
- 48-PIN QFN48L(0707x0.75-0.50)(H) power package

Typical Application

- PSE-ICM
- Power sourcing equipment (PSE)
- Switcher/Router
- Midspan power injection

Order Information

PART	TEMP RANGE	PIN-PACKAGE
XS2184	-40 °C to 105 °C	QFN48L(0707x0.75-0.50)(H)