

Four channels, compatible with IEEE 802.3at/af PSE controller

Product Overview

XS2180 is a 4-ch Power Sourcing Equipment (PSE) power controller designed for IEEE® 802.3at/af compliant PSE.

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 and five-level detection for high-power PDs. Its single power supply delivers up to 70 W per port (when 5-level enabled) 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.

XS2180 has compact 32-pin QFNWB (5 mm × 5 mm) 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 0.25Ω
- ◆ Up to 70W per port
- ◆ 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
- ◆ Space-saving 32-PIN QFNWB (5 mm × 5 mm) power package

Typical Application

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

Order Information

PART	TEMP RANGE	PIN-PACKAGE
XS2180	-40 °C to 105 °C	QFNWB5 × 5-32L-Q

Application Diagram

