



New Product Announcement

PI7C1401

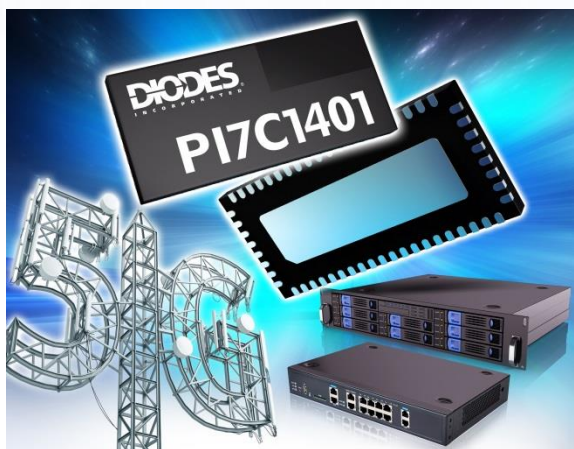
I²C-bus/SPI Quad Port Expander

The PI7C1401 is an I²C-bus/SPI quad port expander, it is specifically designed to manage common port types such as SFP+ and QSFP+.

The PI7C1401 provides an I²C-bus/SPI interface, an interrupt output to host and four I²C interfaces, general purpose pins for low-speed control signals to the modules.

The PI7C1401 can be used in a wide range of applications such as networking, telecom, storage/data center, and embedded systems. The typical usage for this device is high volume applications requiring an "expander" to aggregate all low-speed control and I²C signals across four ports and presents a single I²C or SPI interface to host.

Multiple PI7C1401s can be used in high-port-count applications with one I²C or SPI to host. The system BOM cost can be cut by using smaller IO count control device (FPGAs, CPLDs, MCUs) and by reducing routing layer congestion.



The Diodes Advantage

- **Automatic Pre-Fetch**
High performance for data transmission
- **IO filter for input pin**
Avoids incorrect signal input
- **Multiple PI7C1401 connections**
Flexible design
- **Advanced LED features**
Programmable blinking and dimming
- **Customizable events of Interrupt**
High efficiency
- **ESD: HBM 4KV, CDM 2KV**
High reliability
- **TQFN-56 Packaging (Pb-free & Green)**
Industry standard packages

Applications

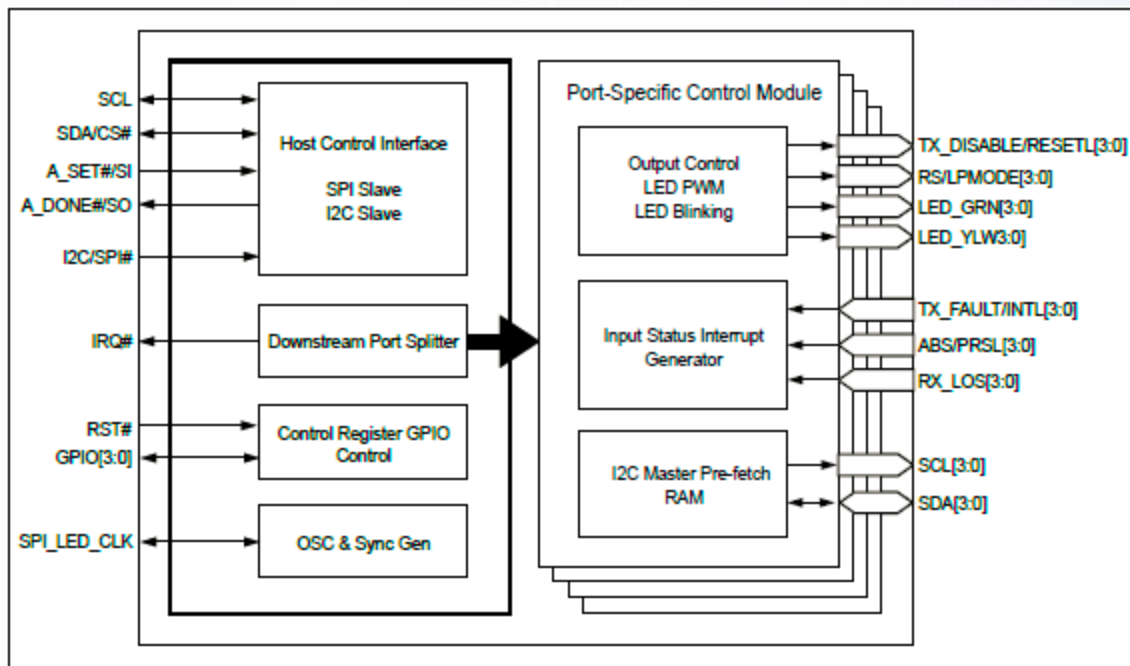
- Networking
- Storage/Data center
- Telecom
- Embedded Systems



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Block Diagram



Product Portfolio

Part Number	Description	Host Interface	Aggregation Port	GPIO	Automatic Pre-fetch	Operating Temperature Range (°C)	Pins	Packages
PI7C1401	I ² C-bus/SPI to Quad Port Expander	I ² C/SPI	4	4	Yes	-40~85	56	TQFN (ZF56) MSL1

Ordering Information

Part Number	Package	Pb-free and Green	Temperature
PI7C1401AZFEX	TQFN-56	Yes	-40°C TO 85°C
PI7C1401AEVB	Board	Evaluation Board for PI7C1401	