

Product: **PCIe2 6-Port/8-Lane Packet Switch, ExtremeLo™ Family**

Part Numbers: **PI7C9X2G608EL**

Product Description

The PI7C9X2G608EL is an 8-lane PCI Express Gen 2 Switch with 6 PCI Express ports specifically designed to meet high performance and the latest GREEN low-power, lead (Pb)-free system requirements, such as Embedded, Storage, Network and other platforms. The name of the family, ExtremeLo™, refers to Pericom proprietary power saving technology.

The PI7C9X2G608EL provides one upstream port supporting x4 or x1, and 4 or 5 downstream ports that support x1 operation. The flexible upstream port provides users the flexibility to expand or fan-out from a wide range of x86, ARM, MIPS, PowerPC SoC/ Chipset, and it is a suitable solution for Embedded, Storage, wired/ wireless Networking, HBA, Surveillance, Combo card and other applications.

Industry Specifications Compliance

- PCI Express® Base Specification, Revision 2.1
- PCI Express CEM Specification, Revision 2.0
- PCI-to-PCI Bridge Architecture Spec., Rev 1.2
- Advanced Configuration Power Interface (ACPI) Specification
- SMBus interface support

Features

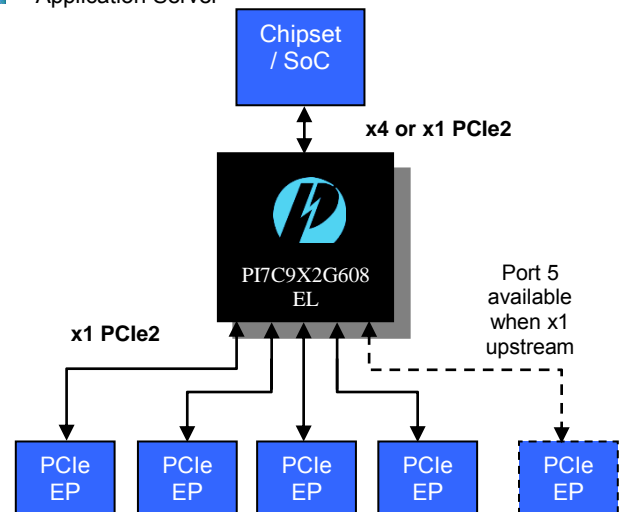
- PCISIG PCI Express 2.1 certificated
- Integrated 100MHz Clock buffer for each downstream port
- Reliability, Availability and Serviceability
 - Supports Data Poisoning and End-to-End CRC
 - Advanced Error Reporting and Logging
- Device State Power Management
 - Supports D0, D3_{Hot} and D3_{Cold} device power states
- Advanced Power Savings
 - Empty downstream ports are set to idle
- Programmable driver current and de-emphasis level at each individual port
- Port Arbitration: Round Robin (RR), Weighted RR and Time-based Weighted RR
- Extended Virtual Channel capability
 - Two Virtual Channels (VC) and Eight Traffic Class (TC) support
 - Independent TC/VC mapping for each port
- Supports Isochronous Traffic
 - Isochronous traffic class mapped to VC1 only
- Supports “Cut-through”(Default) as well as “Store and Forward” mode for switching packets
- Peer-to-peer switching between any two downstream ports
- Supports up to 512-byte maximum payload size
- Power Dissipation: 1.2 W typical in L0 normal mode (Including clock buffer Pd)
- Industrial Temperature Range: -40° to 85°C
- MTBF: 50,927,360 hours
- Package: 136-pin aQFN 10mm x 10mm
 - Pb free and 100% Green

Enhanced Features

- 150ns typical latency for packet running through switch without blocking
- Link Power Management
 - Supports L0, L0s, L1, L2, L2/L3_{Ready} and L3 link power states
 - Active state power management for L0s and L1 states
 - Supports PCI-PM and ASPM of L1.1 PM Sub-state
- Supports Device Specific PME Turn-Off Message for each downstream port
- Support Access Control Service (ACS) for peer-to-peer traffic
- Support Address Translation (AT) packet for SR-IOV application
- Support OBFF and LTR
- Support Serial Hot Plug Controller

Application

- Embedded system
- IPC/ Industrial control
- Set-top box and consumer devices
- Wireless AP/ Switch Router
- Automotive
- Wired/ Wireless Tele/ data communication
- Printer/ MFP/ Peripheral
- Surveillance/ Security
- HBA / Combo cards
- NB/ PC Motherboard PCIe slot expansion
- NAS/ Storage
- Application Server



Order Information

PART NUMBER	PACKAGE	PB-FREE & GREEN	TEMPERATURE
PI7C9X2G608ELBZXAEAX	136 aQFN	YES	-40°C TO 85°C
PI7C9X2G608ELBEVB-X1U	Board	Evaluation kit for PI7C9X2G608ELB with x1 uplink	
PI7C9X2G608ELBEVB-X4U	Board	Evaluation kit for PI7C9X2G608ELB with x4 uplink	

† Note: Adding an X suffix =Tape/Reel

Данный компонент на территории Российской Федерации

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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