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Products > Interface & Connectivity > PCI Express® Solutions > PCI Express® Switches > 48-lane, 12-port PCIe Gen2 System Interconnect Switch

89H48H12G2 Active

48-lane, 12-port PCIe Gen2 System Interconnect Switch

Provides 48 PCIe Gen2 lanes and 12 ports of high-performance, deterministic system interconnect switching. All ports receive full line rate, non-blocking throughput for multiple traffic flows regardless of switch loading.

Features

- 48 PCIe Gen2 Lanes, 12 Switch Ports
- Non-blocking switch architecture optimized for High Performance System Interconnect
- Partitionable switch architecture for true multi-root support
- Internal buffering and flow control credits optimized for maximum bandwidth and large payloads
- Low latency, Low power

Product Options

Orderable Part ID	Part Status	Pkg. Code	Pkg. Type	Lead Count (#)	Temp. Grade	Pb (Lead) Free	Carrier Type	Buy Sample
89H48H12G2ZCBLG	Active	BLG676	FCBGA	676	C	Yes	Tray	Availability
89H48H12G2ZCBLG8	Active	BLG676	FCBGA	676	C	Yes	Reel	Availability
89H48H12G2ZCBLGI	Active	BLG676	FCBGA	676	I	Yes	Tray	Availability
89H48H12G2ZCBLGI8	Active	BLG676	FCBGA	676	I	Yes	Reel	Availability
A								

Technical Documentation

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Title	Format	File Size	Date
Datasheets & Errata			
89PES48H12G2 Data Sheet	PDF	350 KB	Nov 27, 2011
 89PES48H12G2 Device Errata (Revision ZC)	PDF	163 KB	Feb 10, 2011
 89PES48H12G2 Device Errata (Revision ZB)	PDF	50 KB	Jun 25, 2009
 89PES48H12G2 Device Errata (Revision ZA)	PDF	61 KB	May 28, 2009
User Guides & Manuals			
89PES48H12G2 Device User Manual	PDF	3.68 MB	Apr 5, 2013
PCI Express Browser Rev 5.0.2 User Manual	PDF	2.49 MB	Dec 2, 2010
Application Notes & White Papers			
AN-825: SerDes Configuration for Industrial Temperature	PDF	124 KB	Jul 4, 2014
AN-715, Multi-Port SSC Support in IDT PCIe Gen2 Switches	PDF	312 KB	Oct 25, 2009
AN-721, IDT PCIe Gen2 Switch Hardware Design Guide	PDF	341 KB	Aug 13, 2009
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PCNs & PDNs			
PCN# : A1706-01 (R2) Change in Bumping Location on Select Packages	PDF	78 KB	Dec 19, 2017
PCN# : A1706-01 (R1) Change in Bumping Location on Select Packages	PDF	77 KB	Oct 25, 2017
PCN# : A1706-01 Change in Bumping Location on Select Packages	PDF	32 KB	Jul 9, 2017
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Other			
PCI Express® Gen2/Gen3 Signal Integrity, Switching and Bridging Products Overview	PDF	422 KB	Apr 19, 2018
89PES48H12G2 Product Brief	PDF	245 KB	Sep 24, 2008

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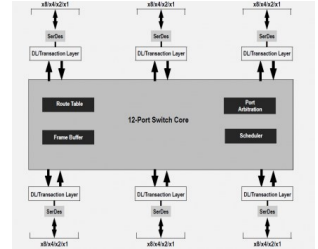
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Images

89H48H12G2 - Block Diagram



Software & Tools

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Part Number	Title ▼	VIDEOS
89KTPES48H12G2	©2018 Integrated Device Technology, Inc. Evaluation Board SDK for the 89H48H12G2	

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