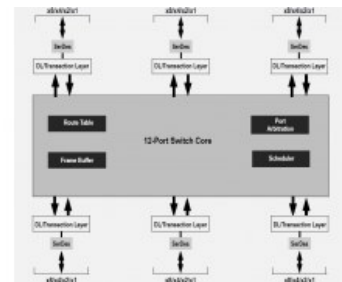


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89H48H12G2

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.


 Status: **Active**

Product Quick Links

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- [Product Options](#)
- [Technical Documentation](#)
- [Software & Tools](#)
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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 Specification

PCIe Lanes (#)	Ports (#)	PCIe Generation	Pkg. Code	Pkg. Type	Length (mm)	Width (mm)	Temp. Grade
48	12	Gen2	BLG676, BL676	FCBGA	27	27	I, C

Product Options

Orderable Part ID	Part Status	Pkg. Code	Pkg. Type	Lead Count (#)	Temp. Grade	Pb (Lead) Free	Carrier Type	Sample & Buy
89H48H12G2ZCBL	Active	BL676	FCBGA	676	C	No	Tray	Check Availability ▶
89H48H12G2ZCBL8	Active	BL676	FCBGA	676	C	No	Reel	Check Availability ▶
89H48H12G2ZCBLG	Active	BLG676	FCBGA	676	C	Yes	Tray	Check Availability ▶
89H48H12G2ZCBLG8	Active	BLG676	FCBGA	676	C	Yes	Reel	Check Availability ▶
89H48H12G2ZCBLGI	Active	BLG676	FCBGA	676	I	Yes	Tray	Check Availability ▶
89H48H12G2ZCBLGI8	Active	BLG676	FCBGA	676	I	Yes	Reel	Check Availability ▶
89H48H12G2ZCBLI	Active	BL676	FCBGA	676	I	No	Tray	Check Availability ▶
89H48H12G2ZCBLI8	Active	BL676	FCBGA	676	I	No	Reel	Check Availability ▶

Technical Documentation

	Title	Other Languages	Type	Format	File Size	Date ▼
Datasheets & Errata						
	89PES48H12G2 Data Sheet		Datasheet	PDF	350 KB	Nov 28, 2011
	89PES48H12G2 Device Errata (Revision ZC)		Errata	PDF	163 KB	Feb 11, 2011
	89PES48H12G2 Device Errata (Revision ZB)		Errata	PDF	50 KB	Jun 26, 2009

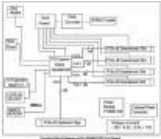
	Title	Other Languages	Type	Format	File Size	Date ▾
	🔍 show all (4)					
User Guides & Manuals						
	89PES48H12G2 Device User Manual		Manual	PDF	3.68 MB	Apr 5, 2013
	PCI Express Browser Rev 5.0.2 User Manual		Manual	PDF	2.49 MB	Dec 3, 2010
Apps Notes & White Papers						
	AN-825: SerDes Configuration for Industrial Temperature		Application Note	PDF	124 KB	Jul 4, 2014
	AN-715, Multi-Port SSC Support in IDT PCIe Gen2 Switches		Application Note	PDF	312 KB	Oct 26, 2009
	AN-721, IDT PCIe Gen2 Switch Hardware Design Guide		Application Note	PDF	341 KB	Aug 14, 2009
	🔍 show all (6)					
PCNs & PDNs						
	PCN# : A1505-01R1 Assembly Location Transfer from Amkor Philippines to Amkor Taiwan and ASEK Taiwan		Product Change Notice	PDF	524 KB	Oct 29, 2015
	PCN# : A1505-01 Transfer Assembly Location ATP to ATT and ASEK on Select Products		Product Change Notice	PDF	632 KB	Aug 17, 2015
	PCN# : A1303-01 Changed of underfill material		Product Change Notice	PDF	99 KB	May 20, 2014
Other						
	IDT PCI Express Solutions Overview	简体中文, 日本語	Overview	PDF	945 KB	Aug 4, 2016
	89PES48H12G2 Product Brief		Product Brief	PDF	245 KB	Sep 25, 2008

Software & Tools

	Title	Type	Format	File Size	Date ▼
	89PES48H12G2 BSDL (Revision ZA)	Model - BSDL	TXT	37 KB	Jan 30, 2009
	89PES48H12G2 BSDL (Revision ZB)	Model - BSDL	TXT	37 KB	Feb 7, 2010
	89PES48H12G2 BSDL (Revision ZC)	Model - BSDL	TXT	37 KB	Feb 7, 2010
	PCI Express Browser Rev 4.9 Linux Installation	Software Tool	ZIP	48.85 MB	Jan 19, 2009
	PCI Express Browser Rev 5.0.2 Linux Installation	Software Tool	application/x-gzip	30.49 MB	Nov 17, 2015
	PCI Express Browser Rev 5.0.2 Windows Installation	Software Tool	ZIP	54.45 MB	Dec 3, 2010
	PCI Express Browser Rev 5.0.2 Windows Installation - Digitally Signed	Software Tool	ZIP	104.57 MB	Jun 16, 2011

Evaluation Boards

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Evaluation Board SDK for the 89H48H12G2

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