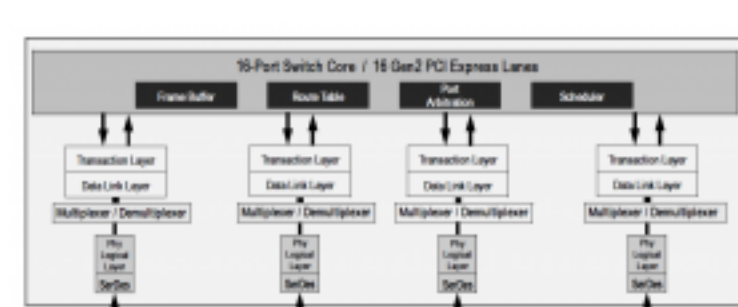




## 89H16NT16G2 16-lane, 16-port PCIe Gen2 System Interconnect Switch

Status: **Active**

Provides 16 PCIe Gen2 lanes and 16 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.



### Product Quick Links

- Specifications
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### Features

- 16 PCIe Gen2 Lanes, 16 Switch Ports
- Non-blocking switch architecture optimized for High Performance System Interconnect
- Partitionable switch architecture for true multi-root support
- Multiple Nontransparent Bridging functions supported (NTB)
- Movable upstream support
- On-board DMA 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
16	16	Gen2	HLG324, HL324	FCBGA	19	19	C, I

### Product Options

Orderable Part ID	Part Status	Pkg. Code	Pkg. Type	Lead Count (#)	Temp. Grade	Pb (Lead) Free	Carrier Type	Sample & Buy
89H16NT16G2ZBHL	Active	HL324	FCBGA	324	C	No	Tray	<a href="#">Check Availability</a>
89H16NT16G2ZBHL8	Active	HL324	FCBGA	324	C	No	Reel	<a href="#">Check Availability</a>
89H16NT16G2ZBHLG	Active	HLG324	FCBGA	324	C	Yes	Tray	<a href="#">Check Availability</a>
89H16NT16G2ZBHLG8	Active	HLG324	FCBGA	324	C	Yes	Reel	<a href="#">Check Availability</a>
89H16NT16G2ZBHLGI	Active	HLG324	FCBGA	324	I	Yes	Tray	<a href="#">Check Availability</a>
89H16NT16G2ZBHLGI8	Active	HLG324	FCBGA	324	I	Yes	Reel	<a href="#">Check Availability</a>
89H16NT16G2ZBHLI	Active	HL324	FCBGA	324	I	No	Tray	<a href="#">Check Availability</a>
89H16NT16G2ZBHLI8	Active	HL324	FCBGA	324	I	No	Reel	<a href="#">Check Availability</a>
89H16NT16G2ZCHL	Active	HL324	FCBGA	324	C	No	Tray	<a href="#">Check Availability</a>
89H16NT16G2ZCHL8	Active	HL324	FCBGA	324	C	No	Reel	<a href="#">Check Availability</a>
89H16NT16G2ZCHLG	Active	HLG324	FCBGA	324	C	Yes	Tray	<a href="#">Check Availability</a>
89H16NT16G2ZCHLG8	Active	HLG324	FCBGA	324	C	Yes	Reel	<a href="#">Check Availability</a>
89H16NT16G2ZCHLGI	Active	HLG324	FCBGA	324	I	Yes	Tray	<a href="#">Check Availability</a>
89H16NT16G2ZCHLGI8	Active	HLG324	FCBGA	324	I	Yes	Reel	<a href="#">Check Availability</a>
89H16NT16G2ZCHLI	Active	HL324	FCBGA	324	I	No	Tray	<a href="#">Check Availability</a>
89H16NT16G2ZCHLI8	Active	HL324	FCBGA	324	I	No	Reel	<a href="#">Check Availability</a>

### Technical Documentation

Title	Type	Format	File Size	Date
<b>Datasheets &amp; Errata</b>				
<a href="#">89HPES16NT16G2 Datasheet</a>	Datasheet	PDF	275 KB	12/17/2013
<a href="#">89HPES16NT16G2 Device Errata (Revision ZC)</a>	Errata	PDF	137 KB	06/24/2011
<a href="#">89HPES16NT16G2 Device Errata (Revision ZB)</a>	Errata	PDF	142 KB	06/24/2011
<a href="#">+ show all (4)</a>				
<b>User Guides &amp; Manuals</b>				
<a href="#">89HPES16NT16G2 Device User Manual</a>	Manual	PDF	7.44 MB	07/10/2013
<a href="#">PCI Express Browser Rev 5.0.2 User Manual</a>	Manual	PDF	2.49 MB	12/03/2010
<b>Apps Notes &amp; White Papers</b>				
<a href="#">AN-821: SerDes Configuration for Industrial Temperature</a>	Application Note	PDF	123 KB	03/06/2014
<a href="#">AN-727: PES32NT24AG2 Hardware Design Guide</a>	Application Note	PDF	505 KB	05/05/2011
<a href="#">AN-715, Multi-Port SSC Support in IDT PCIe Gen2 Switches</a>	Application Note	PDF	312 KB	10/26/2009
<a href="#">+ show all (13)</a>				
<b>Other</b>				
<a href="#">IDT PCI Express Solutions Overview</a>	Overview	PDF	2.43 MB	08/14/2013
<a href="#">89HPES16NT16G2 OrCAD symbol</a>	Misc	Composite Document File V2 Document, No summary info	29 KB	07/09/2010
<a href="#">89HPES16NT16G2 Product Brief</a>	Product Brief	PDF	350 KB	09/15/2009

### Software & Tools

Title	Type	Format	File Size	Date
<a href="#">89HPES16NT16G2 BSDL (Revision ZA)</a>	Model - BSDL	TXT	20 KB	02/08/2010
<a href="#">89HPES16NT16G2 BSDL (Revision ZB)</a>	Model - BSDL	TXT	20 KB	01/04/2011
<a href="#">89HPES16NT16G2 BSDL (Revision ZC)</a>	Model - BSDL	TXT	20 KB	05/10/2011
<a href="#">PCI Express Browser Rev 5.0.2 Linux Installation</a>	Software Tool	application/x-gzip	51.33 MB	06/10/2014
<a href="#">PCI Express Browser Rev 5.0.2 Windows Installation</a>	Software Tool	ZIP	54.45 MB	12/03/2010
<a href="#">PCI Express Browser Rev 5.0.2 Windows Installation - Digitally Signed</a>	Software Tool	ZIP	104.57 MB	06/16/2011

### Evaluation Boards



Evaluation Board SDK for the 89H16NT16G2

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