89HT0816AP Active

PCIe Gen3 Signal Retimer

The IDT 89HT0816AP 16-channel, PCIe 3.0, 8GTps Retimer offers a blend of top analog performance and the most complete feature set in protocol aware signal conditioner optimized for demanding 2.5Gbps, 5Gbps, and 8Gbps applications in computing, storage, and communications.

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Features

- 16-channel PCIe 3.0 Signal Retimer
- Advanced signal conditioning features
- Full Equalization Procedure including Phase 2 & 3
- Protocol aware with full support of Automatic Equalization Procedure
- Advanced diagnostic features
- I2C and JTAG programming interface
- Commercial and Industrial temperature

Quick Links

Product Options
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Product Options

Orderable Part ID	Part Status	Pkg. Code	Pkg. Type	Lead Count (#)	Temp. Grade	Pb (Lead) Free	Carrier Type	Buy Sample
89HT0816APZCBLG	Active	BLG196	FCBGA	196	C	Yes	Tray	Availability
89HT0816APZCBLG8	Active	BLG196	FCBGA	196	C	Yes	Reel	Availability
89HT0816APZCBLGI	Active	BLG196	FCBGA	196	I	Yes	Tray	Availability
89HT0816APZCBLGI8	Active	BLG196	FCBGA	196	I	Yes	Reel	Availability

Tools & Support

TECHNICAL SUPPORT
QUALITY/PACKAGE SUPPORT
SALES SUPPORT
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Technical Documentation

Title	Other Languages	Type	Format	File Size	Date
Datasheets & Errata					
89HT0816AP Device Errata	–	Errata	PDF	102 KB	Aug 23, 2017
89HT0816AP Datasheet	–	Datasheet	PDF	506 KB	Feb 18, 2016
User Guides & Manuals					
89HT0816AP User Manual	–	Manual	PDF	1.55 MB	Feb 5, 2018
Application Notes & White Papers					
Clock Tree Design for IDT PCIe 3.0 GTps Retimer Applications	–	Application Note	PDF	472 KB	Apr 29, 2014
Using the T0816AP in a PCB Designed for T0816P	–	Application Note	PDF	48 KB	Apr 2, 2014
PCNs & PDNs					
PCN# : A1603-01R1 Add Alternate Lid Adhesive Material	–	Product Change Notice	PDF	513 KB	Jul 26, 2016
PCN# : A1603-01 Lid Adhesive Material Change	–	Product Change Notice	PDF	24 KB	Apr 10, 2016
Other					
PCI Express® Gen2/Gen3 Signal Integrity, Switching and Bridging Products Overview	–	Overview	PDF	422 KB	Apr 19, 2018
IDT Products for Radio Applications	日本語	Product Brief	PDF	2.34 MB	Nov 29, 2016
89HT0816AP Signal Retimer Product Brief	–	Product Brief	PDF	163 KB	Nov 13, 2014

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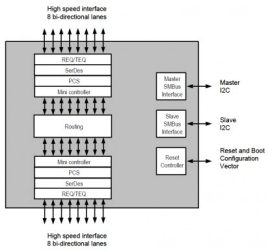
Videos

IDT PCIe 3.0 Retimers for High-Speed 8Gbps S…

Images

89HT0816AP - Block Diagram



Software & Tools

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	Title	Format	File Size	Date
	RegTech Retimer Configuration Utility (v2.4)	ZIP	49.45 MB	Jul 2,
	89HT08xxP FougePoint Eye Tool (v1.4.5)	ZIP	7.58 MB	Apr 21, 2016
	89HT0816AP BSDL	BSDL	21 KB	Nov 29, 2015
	89HT08xxP Eye Contour Tool (v2.14)	ZIP	170.85 MB	May 31, 2015

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Evaluation Boards

Part Number	Title
89KTT0816AP	Evaluation Board for 89HT0816AP Retimer, 8-lane, 8Gbps, PCIe3

NEWSLETTER

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