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89KTPES24NT24G2

Evaluation Board SDK for the 89H24NT24G2

The EB-LOGAN-19 Evaluation Board provides an evaluation platform for the PES24NT24G2 switch and for other members of this switch family including PES16NT16G2 and PES12NT12G2.

The evaluation board, along with additional adapters and daughter boards provide by IDT, can be configured to test every possible combination of the number of lanes and ports offered by the switch. Advanced capabilities such as switch partitioning, NTB, DMA, and local port clocking can be evaluated with the evaluation board.

The EB-LOGAN-23 brings out all 32 lanes of the device to 4 Mezzanine connectors located close to the device — one connector per stack of 8 lanes. Various types of daughter cards (provided by IDT) can then be plugged into these connectors to facilitate connectivity to one x8 or two x4 or four x2 or eight x1 link partners. Link partners may be plugged directly into these daughter cards, or they can be connected to these daughter cards via SAS or SATA cables and a different board with PCIe slots known as the 12-PACK board (provided by IDT). Given that the majority of the hosts/servers offer PCIe standard slots, IDT provides the necessary adapter cards that may be plugged into these host/server slots as well as the cables that connect such adapters to the daughter cards, which in turn are plugged into the main evaluation board on which the IDT PCIe switch device is populated.

Features

- Hardware**
 - 24NT24G2 PCIe 24-port switch
 - Upstream, Downstream Ports
 - Numerous user selectable configurations set using onboard jumpers and DIP-switches
 - SMBUS Slave Interface (4 pin header)
 - SMBUS Master Interface connected to the Serial EEPROMs and I/O Expanders
 - Push button for Warm Reset
 - Many LEDs to display status, reset, power, hot-plug, etc.
 - JTAG connector to the 24NT24G2 JTAG pins
- Software**
 - GUI based application for Windows and Linux
- Other**
 - SMBUS cable/dongle may be required for certain evaluation exercises.
 - SMA/SATA connectors are provided on the EB-LOGAN-23 board for clock outputs.



Product Options

Orderable Part ID	Part Status	Sample & Buy
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Technical Documentation

	Title	Type	Format	File Size	Date
User Guides & Manuals					
	EB-LOGAN-19 REV-B Evaluation Board User Manual (Fab: 18-692-001)	Manual - Eval Board	PDF	5.70 MB	02/16/2011
	PCI Express Browser Rev 5.0.2 User Manual	Manual	PDF	2.49 MB	12/03/2010
Other					
	IDT PCI Express Solutions Overview	Overview	PDF	2.43 MB	08/14/2013
	89HPES24NT24G2 Based REV-B Eval Board Schematics (Fab: 18-692-001)	Schematic	PDF	4.82 MB	06/10/2010
	89HPES24NT24G2 Based REV-A Eval Board Schematics (Fab: 18-692-000)	Schematic	PDF	4.24 MB	04/20/2010

Software & Tools

	Title	Type	Format	File Size	Date
	PCI Express Browser Rev 4.9 Linux Installation	Software Tool	ZIP	48.85 MB	01/19/2009
	PCI Express Browser Rev 5.0.2 Windows Installation	Software Tool	ZIP	54.45 MB	12/03/2010
	PCI Express Browser Rev 5.0.2 Windows Installation - Digitally Signed	Software Tool	ZIP	104.57 MB	06/16/2011

Related Products

Product ID	Title
89H24NT24G2	24-lane, 24-port PCIe Gen2 System Interconnect Switch

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