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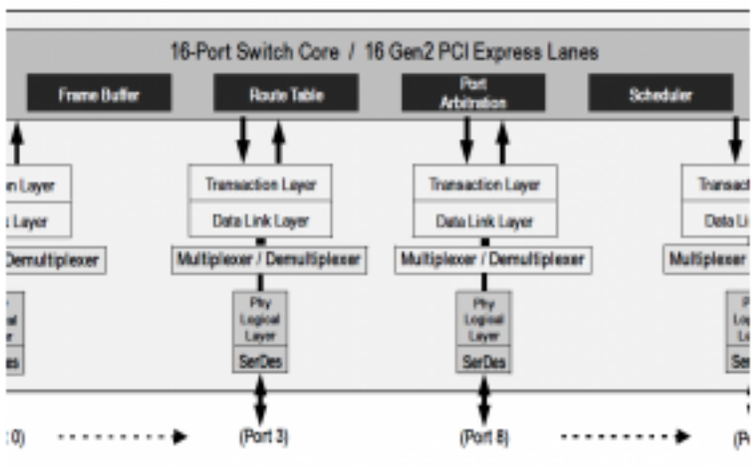
# 89H16NT16G2
# 16-lane, 16-port PCIe Gen2 System Interconnect Switch

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.




## Features

- 16 PCIe Gen2 Lanes, 16 Switch Ports
- Non-blocking switch architecture optimized for High Performance System Interconnect
- Partionable switch architecture for true mutli-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 | HL324, HLG324 | FCBGA | 19 | 19 | C, I |

## Product Options

| ORDERABLE PART ID | PART STATUS | PKG. CODE | PKG. TYPE | LEAD COUNT (#) | TEMP. GRADE | PB (LEAD) FREE | ORDER |
|---|---|---|---|---|---|---|---|
| 89H16NT16G2ZBHL | Active | HL324 | FCBGA | 324 | C | N | Check Inventory |
| 89H16NT16G2ZBHL8 | Active | HL324 | FCBGA | 324 | C | N | Check Inventory |
| 89H16NT16G2ZBHLG | Active | HLG324 | FCBGA | 324 | C | Y | Check Inventory |
| 89H16NT16G2ZBHLG8 | Active | HLG324 | FCBGA | 324 | C | Y | Check Inventory |
| 89H16NT16G2ZBHLGI | Active | HLG324 | FCBGA | 324 | I | Y | Check Inventory |
| 89H16NT16G2ZBHLGI8 | Active | HLG324 | FCBGA | 324 | I | Y | Check Inventory |
| 89H16NT16G2ZBHLI | Active | HL324 | FCBGA | 324 | I | N | Check Inventory |
| 89H16NT16G2ZBHLI8 | Active | HL324 | FCBGA | 324 | I | N | Check Inventory |
| 89H16NT16G2ZCHL | Active | HL324 | FCBGA | 324 | C | N | Check Inventory |
| 89H16NT16G2ZCHL8 | Active | HL324 | FCBGA | 324 | C | N | Check Inventory |
| 89H16NT16G2ZCHLG | Active | HLG324 | FCBGA | 324 | C | Y | Check Inventory |
| 89H16NT16G2ZCHLG8 | Active | HLG324 | FCBGA | 324 | C | Y | Check Inventory |
| 89H16NT16G2ZCHLGI | Active | HLG324 | FCBGA | 324 | I | Y | Check Inventory |
| 89H16NT16G2ZCHLGI8 | Active | HLG324 | FCBGA | 324 | I | Y | Check Inventory |
| 89H16NT16G2ZCHLI | Active | HL324 | FCBGA | 324 | I | N | Check Inventory |
| 89H16NT16G2ZCHLI8 | Active | HL324 | FCBGA | 324 | I | N | Check Inventory |

## Documents

| | TITLE | TYPE | FORMAT | FILE SIZE | DATE |
|---|---|---|---|---|---|
| | PES32NT8BG2 DATA SHEET (MYIDT ACCESS REQUIRED. CLICK FOR DETAILS.) | Datasheet | PDF | 121 KB | 01/26/2010 |
| | IDT PCI Express Solutions Overview | Overview | PDF | 2.47 MB | 09/14/2011 |

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