



## Digital Crosspoint Switches and Mux / DeMux: Market Shares, Strategies, and Forecasts, Worldwide, 2012 to 2018

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### Report Description

WinterGreen Research announces that it has published a new study Digital Crosspoint Switches and Buffers: Market Shares, Strategy, and Forecasts, Worldwide, 2012 to 2018. The 2012 study has 541 pages, 166 tables and figures. Market growth is related to the explosion of digital information and video that needs to be transported over public and private networks.

Worldwide digital communication and data center communication markets include digital signals for video as well. Digital information may represent data or voice traffic. A large number of protocols particularly those specific to the data center are supported by digital crosspoint switches. Markets are poised to achieve significant growth as equipment manufacturers find ways to design crosspoint switches and buffers into products, giving significant new functionality.

Digital crosspoint switches are used in high rate data transfer situations to support integration of information in data centers and by carriers. Broadcast quality video transport of data on the Internet is evolving new applications including those at every level of the supply chain, creating demand at the high end for crosspoint switches.

High quality, high speed data and video transport is part of the evolution of broadband networks. Data within the data center is being moved to storage devices and through networks. Data is moving across regional and international locations at a more rapid pace.

According to Susan Eustis, lead author of the WinterGreen Research team that prepared the Digital Crosspoint Switches and Buffers market research study, "With breakthrough 10 Gbps port capacity, the next generation digital crosspoint switch devices enable a next generation level of performance and architectural options for

higher density system designs.

These 10 Gbps devices are used to implement the 40 Gbps and 100 Gbps port capacity. High speed data infrastructure for 40 Gbps and 100 Gbps port capacity is being built almost exclusively from 10 Gbps crosspoint switches. The ability to achieve 40 Gbps data transport and routing devices by stringing together 4 10Gbps devices is less expensive than going to a 40 Gbps device.”

Any technology has an adoption curve. Components that start at market prices are subject to economies of scale. They are priced accordingly. Customers have shipments in 1 gig. These devices are getting mature. The price is dropping substantially. The same is happening for 10 Gbps devices.

Companies seem to feel that there is a little life left in the 10 Gbps crosspoint devices due to the recent technology breakthroughs giving some market life to these devices before 25 Gbps and 28 Gbps devices roll into full product release. Full product release is sure to drive prices down for the new units, making it attractive to use smaller crosspoint switches linked together to gain capacity.

Communications semiconductors demand is increasing. Evolving technology for broadband access is increasing data rates. The increase in network traffic is in part because of the Internet and voice over IP. High speed video transport has become more feasible and is being used more.

A quantum increase in the quantity of data that is being transmitted has occurred. Broadband communications networks are supported in part by advanced digital crosspoint switch devices that permit interconnect functioning to be efficient. They are part of an overall market for network infrastructure equipment and communications

semiconductors that offer attractive long-term growth prospects.

Networks are moving to embrace a universal Ethernet protocol. As network bandwidth requirements continue to accelerate, more systems require solutions for high-speed signal integrity problems. Crosspoint switch connectivity product lines sell into carrier and enterprise networking applications.

Products address an increasing need to transport signals at ever increasing speed. Units go across fiber, cable, and copper backplane applications. Incumbent telecommunications carriers, integrated communication service providers, cable multiple service operators, and data center managers are among those worldwide who continue to upgrade and expand legacy portions of their networks. The aim is to accommodate new service offerings. A further aim is to reduce operating costs.

The upgrade and expansion cycle requires the development of a variety of new equipment created from advanced semiconductor solutions. The development of new, next-generation networks is an ongoing effort for both service providers and enterprise data centers.

This study illustrates the digital crosspoint switch market driving forces. It describes the principal competitive factors that impact the success of digital crosspoint switches as they are used to provide chips for high speed data integration management solutions. Market opportunities are addressed in the comprehensive market study that lays out strategy considerations in considerable detail: Markets at \$260.7 million in 2011 are anticipated to reach \$901.1 billion by 2018.

WinterGreen Research is an independent research organization funded by the sale of market research studies all over the world and by the implementation of ROI models that are used to calculate the total cost of ownership of equipment, services, and software. The company has 35 distributors worldwide, including Global Information Info Shop, Market Research.com, Research and Markets, Bloomberg, and Thompson Financial.

**Check Out These Key Topics**

- Crosspoint Switch
- Muxbuffer
- Portable Consumer Devices
- Wireless Handsets
- Converged Data And Video
- Automotive Crosspoint Switch
- Security Crosspoint Switch
- Video Crosspoint Switch
- Multimedia Crosspoint Switch
- Carrier Crosspoint Switch
- Crosspoint Switch Power Conservation
- Multistage Crosspoint Switching
- High Speed Networks Drive Crosspoint Switch Adoption
- Backplane Efficiency
- Ethernet Adoption at Desktop
- Storage Industry Adoption of Crosspoint Switches
- Crosspoint Switch Matrix With Input And Output
- Crosspoint Switch on Internet
- Network Access
- Enterprise Networks
- Metropolitan Area Networks
- Crosspoint Switch Architecture
- Transport Networks
- Optical Transport
- Digital Optical Networks
- Core Networks
- Metro Networks
- TransNet / TransConnect
- Ethernet Mobile Backhaul
- Mobile Backhaul
- Digital Optical Network
- Photonic Integrated Circuits
- Digital Line Module
- OTN

- ROADM
- Tunable optics
- Pluggable optics
- ASON/GMPLS
- Data switching
- ODB capability
- Optimized optical transport infrastructure
- 100 Gigabit Ethernet
- 40 Gigabit Ethernet
- High-Bandwidth
- Fiber Transmission
- Spectral Efficiency
- Network Construction
- Internet Protocol Traffic
- Mobile Backhaul
- MuxBuffer
- Portable Consumer Devices
- Wireless Handsets
- Converged Data And Video
- Automotive Crosspoint Switch
- Security Crosspoint Switch
- Video Crosspoint Switch
- Multimedia Crosspoint Switch
- Carrier Crosspoint Switch
- Crosspoint Switch Power Conservation
- Multistage Crosspoint Switching
- High Speed Networks Drive Crosspoint Switch Adoption
- Backplane Efficiency
- Ethernet Adoption at Desktop
- Storage Industry Adoption of Crosspoint Switches
- Crosspoint Switch Matrix With Input And Output
- Crosspoint Switch on Internet
- Network Access
- Enterprise Networks

- Metropolitan Area Networks

### **Companies Profiled**

### **Market Leaders**

- Texas Instruments / National Semiconductor
- MindSpeed
- Analog Devices
- Vitesse

### **Market Participants**

- Hittite
- Intersil
- Lattice
- LSI
- Maxim Integrated Technologies
- Maxim Revenue

- Micrel
- Semtech
- Thinklogical

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## Table Of Content

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### Notes:

#### **1. DIGITAL CROSSPOINT SWITCH MARKET DYNAMICS AND MARKET DESCRIPTION 1-1**

- 1.1 Digital Crosspoint Switch Definition 1-1
  - 1.1.1 Digital Crosspoint Non-Linear Buffered Signal Conditioning And Switching 1-2
  - 1.1.2 Digital Crosspoint Switch Attributes 1-3
- 1.2 Stability Of Global Credit And Financial Markets 1-5
- 1.3 Digital Crosspoint Switch Design Wins 1-6
  - 1.3.1 Digital Switches 1-7
  - 1.3.2 Semiconductor Components 1-7
- 1.4 Service Provider Communications Industry 1-8
  - 1.4.1 Telecommunications Service Providers 1-9
  - 1.4.2 Carrier Networking 1-10
  - 1.4.3 Network Access Last Mile Of Telecommunications Network 1-13
  - 1.4.4 Metropolitan Area Networks 1-14
- 1.5 Data Centers 1-15
  - 1.5.1 Data Center Storage 1-16
  - 1.5.2 Cloud Computing Impact On Data Center Systems 1-18
  - 1.5.3 Enterprise Networking 1-19
  - 1.5.4 Increasing Demands for "Next-Generation Networking" Integrated Circuits 1-21
- 1.6 Communications Topology 1-22
- 1.7 Internet And Wireless Communications Technology 1-24
  - 1.7.1 Optical Networks 1-25
  - 1.7.2 Data And Video Traffic Being Added In Abundance To Voice Traffic 1-26
  - 1.7.3 Semiconductor Companies Design Crosspoint Switches 1-27

## 1.8 Security Systems 1-27

### 1.8.1 Data Center Security Architecture 1-28

### 1.8.2 Carrier Network Security Architecture 1-29

## 1.9 Digital Crosspoint Product Positioning 1-30

### 1.9.1 Digital Crosspoint Switch Advantages 1-33

### 1.9.2 Digital Crosspoint Limitations 1-37

## 1.10 Digital Crosspoint Switch Functions 1-38

### 1.10.1 Crosspoint Switch Standards 1-38

### 1.10.2 Crosspoint Switch Equalization Technology 1-38

### 1.10.3 Channel-Isolation Capabilities 1-40

### 1.10.4 Power Conservation Technology 1-41

### 1.10.5 Built-In System Test Features 1-41

## **2 DIGITAL CROSSPOINT SWITCH MARKET SHARES AND MARKET FORECASTS 2-1**

### 2.1 Demand for Digital Crosspoint Switches 2-1

#### 2.1.1 Using 10 Gbps Devices To Implement 40 Gbps and 100 Gbps Port Capacity 2-1

#### 2.1.2 Communications Semiconductor Demand 2-3

#### 2.1.3 Carrier Networking 2-4

#### 2.1.4 Enterprise Networking 2-4

#### 2.1.5 Crosspoint Switch Market Driving Forces 2-4

#### 2.1.6 Digital Crosspoint Switch Market Assessment by Array Size and Chip Speed 2-10

#### 2.1.7 Significant Developments In Crosspoint Switch Semiconductor Technology 2-14

### 2.2 Large Array Digital Crosspoint Switch Market Shares 2-15

#### 2.2.1 Digital Devices Digital Crosspoint Switches 2-18

#### 2.2.2 Digital Devices Video Crosspoint Switch Applications 2-19

#### 2.2.3 Vitesse 2-20

#### 2.2.4 Vitesse Market Targets 2-24

#### 2.2.5 Vitesse Comprehensive Crosspoint Offering 2-26

#### 2.2.6 Vitesse Mux And Demux Devices 2-26

#### 2.2.7 Mindspeed Customers Include Alcatel-Lucent, Cisco Systems 2-28

#### 2.2.8 Mindspeed Offers High Performance 2-30

#### 2.2.9 Mindspeed Addresses High-Growth Markets 2-30

#### 2.2.10 Semtech / Gennum 2-31



- 2.2.11 Market Segments for Large Array Size Digital Crosspoint Switch 2-32
- 2.2.12 Video Distribution, Broadcast, And Security Large Array Digital Crosspoint Switch Market Shares 2-34
- 2.2.13 Carrier Communications Large Array Digital Crosspoint Switch Market Shares 2-36
- 2.2.14 Data Center Large Array Digital Crosspoint Switches Market Shares 2-36
- 2.3 Small Array Digital Crosspoint Switch Market Shares 2-39
  - 2.3.1 Market Segments Small Array Digital Crosspoint Switch and Buffer, Dollars, Worldwide, 2011 2-43
  - 2.3.2 Auto And Auto Entertainment Small Array Size Digital Crosspoint Switches And Buffers Market Shares 2-44
  - 2.3.3 Video Distribution and Video Broadcast Small Array Size Digital Crosspoint Switches and Buffers Market Shares 2-45
  - 2.3.4 Computer Networking Small Array Digital Crosspoint Switch and Buffers 2-46
  - 2.3.5 Industrial And Automatic Test Equipment (ATE) Small Array Size Digital Crosspoint Switches And Buffers Market Shares 2-47
  - 2.3.6 Telco and Service Provider Networking Small Array Digital Crosspoint Switches and Buffers Market Shares 2-48
  - 2.3.7 Digital Crosspoint Switch Vendor Market Positioning 2-49
  - 2.3.8 Texas Instruments Gigabit 8 x 8 Crosspoint Switch 2-54
  - 2.3.9 Texas Instruments / National Semiconductor LVDS – Low Voltage Differential Signaling 2-54
  - 2.3.10 Texas Instruments / National Semiconductor Crosspoint Switch Description 2-56
  - 2.3.11 Texas Instruments / National Semiconductor LVDS Crosspoint Switches High-Speed Signal Switching Over Lossy Printed Circuit Board Backplanes And Balanced Cables 2-56
  - 2.3.12 Texas Instruments Crosspoint Switch 2-59
- 2.4 Digital Crosspoint Switch Market Forecasts 2-60
  - 2.4.1 Industry Digital Crosspoint Switch Market Segments 2-64
  - 2.4.2 Telecom Carrier Digital Crosspoint Switch Forecasts 2-66
  - 2.4.3 Enterprise Data Center Networking Digital Crosspoint Switches Applications 2-74
  - 2.4.4 Broadcast, Video Distribution, and Security Crosspoint Switches Video Industry Market Dollars 2-81
  - 2.4.5 Automotive and Industrial Digital Crosspoint Switch Market Forecasts 2-83
- 2.5 Digital Crosspoint Switch Pricing 2-90
  - 2.5.1 Maxim Crosspoint Switch Pricing 2-92
- 2.6 Digital Crosspoint Switch Regional Market Segments 2-93
  - 2.6.1 Crosspoint Switch Regional Market Segment Analysis 2-94
  - 2.6.2 Vitesse Net Revenues Summarized By Geographic Area: 2-95
  - 2.6.3 Digital Devices Sales by Regional Segment 2-96
  - 2.6.4 Mindspeed Regional Revenue 2-96

2.6.5 LSI Sales by Region 2-97

### **3. DIGITAL CROSSPOINT SWITCH PRODUCT DESCRIPTION 3-1**

3.1 Mindspeed Crosspoint Switches 3-1

3.1.1 Mindspeed Crosspoint Switch High Speed Capabilities 3-2

3.1.2 Mindspeed Technologies Semiconductor Solutions

For Network Infrastructure Applications 3-4

3.1.3 Mindspeed Signal Conditioners and Crosspoints 3-5

3.1.4 Mindspeed 72x72 3.2 Gbps Crosspoint Switch with Integrated CDRs, Input Equalization & Pre-Emphasis 3-8

3.1.5 Mindspeed 144x144 3.2 Gbps Crosspoint Switch with Integrated CDRs, Programmable Input Equalization, and Output Pre-emphasis 3-10

3.1.6 Mindspeed 17x17 3.2 Gbps Crosspoint Switch with Input Equalization 3-12

3.1.7 Mindspeed 4.25 Gbps Quad-Channel Backplane Driver and Adaptive Equalizer with 4x4 Crosspoint Switch 3-13

3.1.8 Mindspeed 72x72 4.25 Gbps Crosspoint Switch w/ Amplif-Eye™ Signal Conditioning 3-14

3.1.9 Mindspeed 72x72 4.25 Gbps Crosspoint Switch w/ Amplif-Eye™ Signal Conditioning 3-15

3.1.10 Mindspeed 144x144 4.25 Gbps Crosspoint Switch with Amplif-Eye™ Signal Conditioning 3-16

3.1.11 Mindspeed 34x34 3.2 Gbps Crosspoint Switch with Input Equalization 3-16

3.2 Texas Instrument / National Semiconductor 3-17

3.2.1 Texas Instruments SN65LVCP408 Status: Active 8x8 4.25Gbps Crosspoint Switch 3-21

3.2.2 Texas Instruments Mux, Linear Redriver 3-24

3.2.3 Texas Instruments Equalization for Backplanes 3-26

3.2.4 National Semiconductor LVDS Signal Conditioners 3-27

3.2.5 National Semiconductor DS25CP102Q, a

3.125 Gbps 2x2 LVDS Crosspoint 3-27

3.2.6 National Semiconductor Crosspoint Switch Description 3-29

3.2.7 National Semiconductor Cross point Switch Applications 3-30

3.2.8 National Semiconductor LVDS - Low Voltage Differential Signaling 3-31

3.2.9 TI Video Communication Endpoints 3-33

3.3 Vitesse 3-34

3.3.1 Vitesse 11.5 Gbps 16x16 Asynchronous Crosspoint Switch and Signal Conditioner 3-37

3.3.2 Vitesse Crosspoint Switch Applications 3-39

3.4 Analog Devices 3-43

- 3.4.1 Analog Devices Video Crosspoint Switches 3-43
- 3.4.2 Analog Devices Crosspoint Switch Portfolio 3-44
- 3.4.3 Analog Devices Digital Crosspoint Switches 3-45
- 3.4.4 Analog Devices Video Crosspoint Switches 3-47
- 3.4.5 Analog Devices AD8152 Digital Crosspoint Switches 3-48
- 3.4.6 Analog Devices ADV3228: 750 MHz, 8 x 8 Analog Crosspoint Switch 3-52
- 3.4.7 Analog Devices Applications 3-53
- 3.4.8 Analog Devices Functional Block Diagram for ADV3228 750 MHz, 8 x 8 Analog Crosspoint Switch 3-55
- 3.4.9 Analog Crosspoint Switches 3-56
- 3.4.10 Analog Devices Digital Crosspoint Switches 3-59
- 3.4.11 Analog Devices Video Crosspoint Switches 3-61
- 3.5 Semtech / Gennum 3-62
  - 3.5.1 Gennum's Crosspoint Asynchronous Switch, the GX4002 3-64
  - 3.5.2 Gennum Corporation Crosspoint Switches Address Broadcast Equipment Manufacturer Requirements 3-65
  - 3.5.3 Gennum Family Of Crosspoint Switches 3Gb/s Crosspoint Enables Larger Broadcast Equipment Designs 3-66
  - 3.5.4 Gennum's Crosspoint Sophisticated Support For Multiple Data Rates And Formats 3-67
  - 3.5.5 Gennum's Crosspoint End-to-End Portfolio of Broadcast Video Products Optimized for Crosspoint Switch 3-69
  - 3.5.6 Gennum's Crosspoint Pricing and Availability 3-69
  - 3.5.7 Gennum Family Of Six Crosspoint Devices 3-70
  - 3.5.8 Gennum Targets Studios 3-72
- 3.6 Maxim 3-78
  - 3.6.1 Maxim Crosspoint Switch 3-79
  - 3.6.2 Maxim Crosspoints and Multiplexers 3-80
  - 3.6.3 Maxim MAX9675 Video Crosspoint Switches 3-81
  - 3.6.4 Maxim Crosspoint Switch MAX9675 3-83
  - 3.6.5 Maxim MAX4359/MAX4360/MAX4456 low-Cost Video Crosspoint Switches 3-86
  - 3.6.6 Maxim MAX4456 Digitally Controlled 8x8 Switch Matrix 3-87
- 3.7 Intersil 3-89
  - 3.7.1 Intersil Crosspoint Switch 3-89
  - 3.7.2 Intersil Low Power, 8x8 Video 3-91
- 3.8 LSI 3-92
- 3.9 Fairchild Semiconductor 3-96

3.9.1 Fairchild Semiconductor Crosspoint Switch Applications 3-99

3.10 Zarlink 3-99

3.10.1 Zarlink MT8816 8x16 Analog Switch Array 3-100

3.11 Switch Fabric ASIC for Modular LAN/SAN Switch 3-101

3.12 Intel and Numonyx Stacked, Cross Point Phase Change Memory 3-102

3.13 IBM Phase Change Memory 3-107

#### **4. DIGITAL CROSSPOINT SWITCH TECHNOLOGY 4-1**

4.1 Standards for 40G and 100G Enhanced Forward Error Correction 4-1

4.2 Data Center Fabric Computing Network Innovation With Crosspoint Switches 4-1

4.2.1 Data Center Ethernet and Other Protocols 4-2

4.3 What is Jitter? 4-3

4.4 Crosspoint Switch Extends Moore's Law 4-4

4.5 Topologies For Backplane Architecture 4-5

4.5.1 Primary Traffic Patterns In A Backplane Environment 4-5

4.5.2 Multi-Point Architecture And Point-To-Point Architectures 4-7

4.5.3 Crosspoint Switch Device That Has Multiple Ports In Which Any Input Port Can Be Connected To Any Output Port 4-8

4.5.4 Point-To-Point Switched Backplane 4-9

4.5.5 Star Topology 4-9

4.5.6 Out-Of-Band And In-Band Switch Control 4-10

4.5.7 Mesh Backplane 4-11

4.5.8 Point-To-Point 4-12

4.5.9 Multi-Point Backplane 4-13

4.5.10 Switching From Multi-Point Architecture 4-15

4.6 Low Voltage Differential Signaling LVDS Standard 4-16

4.7 LVDS Offered By A Variety Of Vendors 4-21

4.7.1 National Semiconductor BLVDS (Bus LVDS) – 4-22

4.7.2 BLVDS Has Addressed A Wide Market Space 4-23

4.7.3 National Semiconductor GLVDS 4-24

4.8 Intersil Video Crosspoint Delivers Black-Level Accuracy 4-24

4.9 Communications Adoption Of Broadband Applications 4-25

4.9.1 T/E & SONET/SDH 4-28

4.9.2 Consumer/Industrial 4-30

- 4.10 Serial Communications 4-30
  - 4.10.1 Power Management 4-32
  - 4.10.2 Storage 4-33
- 4.11 Ideal Switch 4-34
  - 4.11.1 Switch With Virtual Output Queues On The Ingress Side 4-36
  - 4.11.2 Switch With Shared Memory in Switch Fabric 4-38
  - 4.11.3 Buffered Crossbar Switch Architecture 4-39
- 4.12 Development of 10 Gbit/s Ethernet Supports 40Gbit/s and 100 Gbits/s 4-42
  - 4.12.1 Cisco Metro Ethernet Services 4-43
  - 4.12.2 Enterprise Applications 4-44
- 4.13 Scheduling, Quality of Service (QoS), and Arbitration 4-45
  - 4.13.1 Scheduling 4-45
  - 4.13.2 Arbitration 4-46
  - 4.13.3 Quality of Service (QoS) 4-46
  - 4.13.4 Frames 4-47
- 4.14 Redundancy 4-48
  - 4.14.1 Passive Redundancy (1:1, N:1) 4-49
  - 4.14.2 Load-Sharing Redundancy (N+1, N-1, N+N) 4-49
  - 4.14.3 Active Redundancy (1+1) 4-50

## **5. DIGITAL CROSSPOINT SWITCH COMPANY PROFILES 5-1**

- 5.1 Analog Devices 5-1
  - 5.1.1 Analog Devices Focus On Key Strategic Markets 5-2
  - 5.1.2 Analog Devices Broad Line Of High-Performance ICs 5-3
  - 5.1.3 Analog Devices Digital Signal Processing Products 5-4
  - 5.1.4 Analog Devices Revenue 5-4
  - 5.1.5 Analog Devices Revenue Trends by End Market 5-6
  - 5.1.6 Analog Devices Industrial – 5-7
  - 5.1.7 Analog Devices Automotive – 5-7
  - 5.1.8 Analog Devices Consumer – 5-8
  - 5.1.9 Analog Devices Communications – 5-8
  - 5.1.10 Analog Devices Markets and Applications 5-8
  - 5.1.11 Analog Devices Industrial and Instrumentation Segments 5-9
  - 5.1.12 Analog Devices Defense/Aerospace Segment 5-10

- 5.1.13 Analog Devices Energy Management Segment 5-11
- 5.1.14 Analog Devices Healthcare Segment 5-12
- 5.1.15 Analog Devices Automotive Segment 5-13
- 5.1.16 Analog Devices Consumer Segment 5-16
- 5.1.17 Analog Devices Communications Segment 5-16
- 5.1.18 Analog Devices Segment Financial Information and Geographic Information 5-17
- 5.1.19 Analog Devices Revenue Trends by Product Type 5-17
- 5.1.20 Analog Devices Revenue Trends by Geographic Region 5-18
- 5.1.21 Analog Devices Sales by Regional Segment 5-18
- 5.2 Hittite 5-20
  - 5.2.1 Hittite High Performance Analog, Digital & Mixed Signal ICs, Modules, Subsystems & Instrumentation 5-21
  - 5.2.2 Hittite Microwave Commitment to Innovation, Design & Quality Products 5-22
  - 5.2.3 Hittite Microwave Broad Product Portfolio 5-23
  - 5.2.4 Hittite Microwave Supporting Digital, RF, Microwave & Millimeterwave Applications Across Eight Markets 5-24
- 5.3 Integrated Device Technology, Inc. (IDT) 5-26
  - 5.3.1 Integrated Device Technology, Inc. (IDT) Market Focus 5-27
  - 5.3.2 Integrated Device Technology, Inc. (IDT) Communication Timing Products: 5-30
  - 5.3.3 Integrated Device Technology (IDT) Digital Logic Products: 5-30
- 5.4 Intersil 5-32
  - 5.4.1 Intersil Crosspoint Switch 5-32
  - 5.4.2 Intersil Switches/MUXs/Crosspoints 5-33
- 5.5 Lattice ispGDX2 5-45
- 5.6 LSI 5-48
  - 5.6.1 LSI Sold External Storage Systems Business 5-48
  - 5.6.2 LSI Acquires SandForce 5-49
  - 5.6.3 LSI First Quarter 2012 Revenue 5-49
  - 5.6.4 LSI First Quarter 2012 Highlights 5-50
  - 5.6.5 LSI Information about Geographic Areas 5-52
  - 5.6.6 LSI LinkXpress Crosspoint Switch 5-53
  - 5.6.7 LSI LinkXpress Crosspoint Switch 5-56
- 5.7 Maxim Integrated Technologies 5-60
  - 5.7.1 Maxim Revenue 5-63
- 5.8 Micrel 5-64

- 5.8.1 Micrel Quality Management System 5-67
- 5.8.2 Micrel Revenue 5-67
- 5.8.3 Micrel Leading Manufacturer of IC Solutions 5-69
- 5.9 Mindspeed Technologies 5-69
  - 5.9.1 Mindspeed Customers 5-72
  - 5.9.2 Mindspeed Revenue 5-73
  - 5.9.3 Mindspeed Reports Fiscal Third Quarter 2012 Results 5-73
  - 5.9.4 Mindspeed Technologies Revenue Fiscal Third Quarter 2012 5-74
  - 5.9.5 Mindspeed Strategy 5-78
  - 5.9.6 Mindspeed Amplif-Eye(TM) Signal-Conditioning Solutions for High-Definition Video Applications 5-81
  - 5.9.7 Mindspeed Extends Family of Reconfigurable Crosspoint Switches 5-84
  - 5.9.8 Mindspeed Number One Position In Deployed Small Cell Processors Worldwide 5-86
  - 5.9.9 Mindspeed Scalable System-on-Chip Solutions for Next-Generation Mobile Networks 5-87
  - 5.9.10 Mindspeed Product Portfolio For Enabling Large Broadcasters And Video Production Facilities To Create, Transmit, And Deliver Content 5-88
- 5.10 ON Semiconductor 5-90
  - 5.10.1 ON Semiconductor Revenue 5-91
- 5.11 Semtech 5-92
  - 5.11.1 Gemtech GX4002 2x2 14.025Gb/s Crosspoint Switch 5-92
  - 5.11.2 Semtech / Gennum Corporation 5-95
- 5.12 Texas Instruments 5-96
  - 5.12.1 TI Analog 5-98
  - 5.12.2 TI Embedded Processing 5-100
  - 5.12.3 TI Wireless 5-100
  - 5.12.4 TI Other 5-101
  - 5.12.5 TI Product Cycle Market Characteristics 5-103
  - 5.12.6 TI Competitive Landscape 5-104
  - 5.12.7 TI Customers 5-105
  - 5.12.8 TI Revenue 5-105
- 5.13 Thinklogical Digital Crosspoint Switch 5-106
  - 5.13.1 Thinklogical Digital Crosspoint Switch Series 5-109
  - 5.13.2 Thinklogical Controlling the Digital Crosspoint Switch DCS 5-110
- 5.14 Vitesse 5-116
  - 5.14.1 Vitesse Strategy 5-118

- 5.14.2 Vitesse Targets Large and Growing Markets 5-119
- 5.14.3 Vitesse Focus on Networks in Transformation 5-120
- 5.14.4 Vitesse Develop and Leverage Differentiating Technology in Market Leading Products 5-122
- 5.14.5 Vitesse Product Overview 5-125
- 5.14.6 Vitesse Ethernet Switching Product Line 5-125
- 5.14.7 Vitesse Carrier Ethernet Switch Engines: 5-126
- 5.14.8 Vitesse Enterprise Ethernet Switches: 5-126
- 5.14.9 Vitesse Ethernet Media Access Controllers ("MACs"): 5-128
- 5.14.10 Vitesse Gigabit Ethernet Copper and Dual- Media Transceivers: 5-129
- 5.14.11 Vitesse Gigabit Ethernet Copper and Dual-Media Transceivers with 1588v2 Packet Timing And Synchronization: 5-129
- 5.14.12 Vitesse Connectivity Product Line 5-130
- 5.14.13 Vitesse Crosspoint Switches: 5-132
- 5.14.14 Vitesse Signal Integrity Devices: 5-132
- 5.14.15 Vitesse Transport Processing Product Line 5-133
- 5.14.16 Vitesse Switches: 5-134
- 5.14.17 Vitesse Market Overview 5-135
- 5.14.18 Vitesse Strategy 5-136
- 5.14.19 Vitesse Product Revenues 5-137
- 5.15 Selected Digital Crosspoint Switch Market Participants 5-142

### **Digital Crosspoint Switch Examples**

- Digital Crosspoint Switch Descriptions 6-1
- Analog Devices 6-1
- Texas Instruments 6-1
- Marvell 6-1
- Mindspeed Technologies 6-1
- Maxim Integrated Products 6-5
- Texas Instruments 6-7
- Texas Instruments 2x2 6-10
- Texas Instrument / National Semiconductor 6-14
- 3x3 National Semiconductor 6-16
- Mindspeed Technologies 48X48 6-17
- Texas Instruments 2x2 6-17



20x20 6-18

3x3 Analog Devices 6-19

Mux / DeMux Analog Devices 6-19

4x4 Analog Devices 6-20

12x12 Analog Devices 6-21

16x16 Analog Devices 6-22

2x2 National Semiconductor 6-22

2x2 Fairchild Semiconductor 6-24

160x160 Mindspeed 6-30

Eight-Port Crosspoint Switch Mindspeed 6-30

16x4 Crosspoint Switch Mindspeed 6-31

Mindspeed 6-31

20X20 Mindspeed 6-32

24X24Mindspeed 6-32

72 X 72 Mindspeed 6-33

80X80 Mindspeed 6-33

48X48 Mindspeed 6-33

144X144 Mindspeed 6-34

288X288 Mindspeed 6-35

36X36 Mindspeed 6-35

Texas Instruments 6-36

2x2 Texas Instruments 6-36

2x2 Texas Instruments 6-39

8x4 Texas Instruments 6-41

8 x 8 crosspoint or a 16 x 4 cross- point Texas Instruments 6-41

16x8 Texas Instruments 6-41

2x2 Texas Instruments 6-42

4x4 Texas Instruments 6-44

32x16 Texas Instruments 6-46

4x1 Texas Instruments 6-46

ANALOG Devices 6-47

32 x 17 ANALOG Devices 6-47

34 x34 ANALOG Devices 6-48

3 x 3 ANALOG Devices 6-50

4 x 4 ANALOG Devices 6-50  
12 x 12 ANALOG Devices 6-51  
8 x 8 ANALOG Devices 6-54  
16 x 16 ANALOG Devices 6-55  
40 x 40 ANALOG Devices 6-56  
Mux demux 6-56  
On Semiconductor 6-57

### **List of Tables and Figures**

Digital Crosspoint Switch Executive Summary  
Table ES-1 ES-5  
Digital Crosspoint Switch Market Aspects  
Table ES-2 ES-6  
Digital Crosspoint Switch Market Driving Forces  
Table ES-3 ES-11  
Digital Crosspoint Switches Market Array Size, Dollars,  
Worldwide, 201ES-2018  
Table ES-4 ES-13  
Digital Crosspoint Switch Chip Speed, Dollars, Worldwide, 201ES-2018  
Table ES-5 ES-14  
Significant Developments In Crosspoint Switch Semiconductor  
Technology  
Figure ES-6 ES-16  
Large Array Digital Crosspoint Switch Market Shares, Dollars, 2011  
Digital Crosspoint Switch Market Description and Market Dynamics  
Table 1-1 1-30  
Digital Crosspoint Switch Product Positioning  
Table 1-2 1-31  
Digital Crosspoint Switch Target Markets  
Table 1-3 1-33  
Digital Crosspoint Switch Applications  
Table 1-4 1-35  
Digital Crosspoint Switch Advantages

Table 1-5 1-36

Key Crosspoint Switch Architectural Advantages

Table 1-6 1-39

Crosspoint Switch Functions

Table 1-7 1-42

Crosspoint Switch Testing Features

Digital Crosspoint Switch Market Shares and Market Forecasts

Table 2-1 2-5

Digital Crosspoint Switch Market Aspects

Table 2-2 2-6

Digital Crosspoint Switch Market Driving Forces

Table 2-3 2-11

Digital Crosspoint Switches Market Array Size, Dollars,  
Worldwide, 2012-2018

Table 2-4 2-13

Digital Crosspoint Switch Chip Speed, Dollars, Worldwide, 2012-2018

Table 2-5 2-14

Significant Developments In Crosspoint Switch

Semiconductor Technology

Figure 2-6 2-16

Large Array Digital Crosspoint Switch Market Shares, Dollars, 2011

Table 2-7 2-17

Large Array Digital Crosspoint Switch Market Shares, Dollars, 2011

Table 2-8 2-19

Digital Devices Digital Crosspoint Switch Applications

Table 2-9 2-24

Vitesse Crosspoint Switch Applications

Table 2-10 2-31

MindSpeed Crosspoint Switch Applications

Table 2-11 2-33

Large Array Size Digital Crosspoint Switch Market Shares,  
Dollars, Worldwide, 2011

Table 2-12 2-35

Video Distribution, Broadcast, and Security Large Array

Digital Crosspoint Switch Market Shares Dollars, Worldwide, 2011

Table 2-13 2-38

Large Array Digital Crosspoint Switches Data Center Market

Shares Dollars, Worldwide, 2011

Figure 2-14 2-40

Small Array Digital Crosspoint Switch and Buffer Market

Shares, Dollars, Worldwide, 2011

Table 2-15 2-41

Small Array Size Digital Crosspoint Switch and Buffer

Shipments Market Shares, Dollars, Worldwide, 2011

Table 2-16 2-43

Small Array Size Digital Crosspoint Switch and Buffer Market

Segments, Dollars, Worldwide, 2011

Table 2-17 2-44

Auto and Auto Entertainment Small Array Size Digital Crosspoint

Switches and Buffers Market Shares, Dollars, Worldwide, 2011

Table 2-18 2-45

Video Distribution and Video Broadcast Small Array Size

Digital Crosspoint Switches and Buffers Market Shares, Dollars,

Worldwide, 2011

Table 2-19 2-46

Computer Networking Small Array Digital Crosspoint Switch and

Buffers Market Shares, Dollars, Worldwide, 2011

Table 2-20 2-47

Small Array Size Digital Crosspoint Switches and Buffers

Industrial and Automatic Test Equipment (ATE)

Market Shares, Dollars, Worldwide, 2011

Table 2-21 2-48

Telco and Service Provider Networking Small Array Digital

Crosspoint Switches and Buffers Market Shares, Dollars,

Worldwide, 2011

Table 2-22 2-49

Digital Crosspoint Switch Vendor Market Positioning

Table 2-23 2-52

Digital Crosspoint Switch Principal Competitive Factors

Table 2-24 2-53

Vendor Position To Compete Favorably in Crosspoint Switch Markets

Table 2-25 2-57

Texas Instruments / National Semiconductor Crosspoint

Switch Features

Table 2-26 2-58

Texas Instruments / National Semiconductor Crosspoint Switch

Applications

Table 2-27 2-59

Texas Instruments Crosspoint Switch Applications

Figure 2-28 2-61

Digital Crosspoint Switch Market Shipments Forecasts Dollars,

Worldwide, 2012-2018

Table 2-29 2-62

Digital Crosspoint Switch Market Forecasts Dollars, Worldwide, 2012-2018

Table 2-30 2-65

Digital Crosspoint Switch Market Total Industry Segments

Dollars, Worldwide, 2012-2018

Figure 2-31 2-66

Digital Crosspoint Switch Market Telco Carrier and Service

Provider Segments Forecasts, Units and Dollars, Worldwide, 2012-2018

Table 2-32 2-69

Crosspoint Switch Vendor Market Positioning

Table 2-33 2-72

Carrier Networking Equipment Market Rapid Growth Factors

Figure 2-34 2-75

Digital Crosspoint Switch Market Data Center Industry

Segments, Dollars and Units, Worldwide, 2012-2018

Table 2-35 2-77

Aspects of Crosspoint Switch Technologies Developed To

Solve High-Speed Optical Networking Challenges

Table 2-36 2-81

Digital Crosspoint Switch Market, Video Distribution,

Broadcast Video, and Security Systems Segments, Dollars and Units,  
Worldwide, 2012-2018

Table 2-37 2-84

Automotive and Industrial Small Array Digital Crosspoint Switch

Market Segments Dollars and Units, Worldwide,  
2012-2018

Table 2-38 2-92

Maxim Crosspoint Switch Pricing

Figure 2-39 2-93

Digital Crosspoint Switch Regional Market Segments, Dollars, 2011

Table 2-40 2-94

Digital Crosspoint Switch Regional Market Segments, 2011

Digital Crosspoint Switch Product Description

Table 3-1 3-5

Mindspeed Signal Conditioners and Crosspoints

Table 3-2 3-7

Mindspeed Signal Conditioners and Crosspoints

Table 3-3 3-18

National Semiconductor DS25CP102 LVDS 2x2 Crosspoint Switch

Figure 3-4 3-21

Texas Instruments SN65LVCP408 Status: Active 8x8 4.25Gbps

Crosspoint Switch

Table 3-5 3-22

Texas Instruments Gigabit 8 x 8 Crosspoint Switch SN65LVCP408

Description

Table 3-6 3-23

Texas Instruments Crosspoint Switch Applications

Table 3-7 3-28

National Semiconductor Crosspoint Switch Features

Table 3-8 3-30

National Semiconductor Cross point Switch Applications

Figure 3-9 3-35

Vitesse LAN and WAN Technologies Positioning

Table 3-10 3-36

Vitesse Carrier Ethernet Crosspoint Switches

Figure 3-11 3-38

Vitesse Crosspoint Switch

Figure 3-12 3-38

Vitesse Crosspoint Switch Specifications

Figure 3-13 3-39

Vitesse Crosspoint Switch Applications

Figure 3-14 3-40

Vitesse Crosspoint Switch Highlights

Figure 3-15 3-40

Vitesse Crosspoint Switch Applications

Table 3-16 3-41

Vitesse VSC336 Line Card Application

Table 3-17 3-44

Analog Devices Video Crosspoint Switch Routing

Table 3-18 3-44

Analog Devices Video Crosspoint Switch Applications

Table 3-19 3-45

Analog Devices' X-stream™ Digital Switches Uses

Figure 3-20 3-46

Crosspoint Switch Multit I/O Applications

Table 3-21 3-51

Analog Devices Digital Crosspoint Switch Pricing

Table 3-22 3-53

Analog Devices Crosspoint Switches Routing Functions

Table 3-23 3-54

Analog Devices' X-stream™ Digital Switches Uses

Table 3-24 3-56

Analog Crosspoint Switches

Table 3-25 3-59

Analog Devices' Digital Crosspoint Switches

Table 2-26 3-61

Analog Devices Video Crosspoint Switch Routing

Table 3-27 3-74

Gennum GX4002 Crosspoint Switch Applications

Table 3-28 3-76

Gennum GX4002 Crosspoint Switch Applications

Table 3-29 3-78

Maxim Crosspoint Switch

Table 2-30 3-79

Maxim Crosspoint Switch Applications

Table 3-31 3-81

Maxim Active Crosspoint Switches

Table 3-32 3-82

Maxim MAX9675 Key Features

Table 3-33 3-84

Maxim MAX9675 Features

Table 3-34 3-84

Maxim MAX9675 Applications

Table 3-35 3-86

Maxim MAX4357 Key Features

Table 3-36 3-88

Maxim MAX4456 Key Features

Table 3-37 3-89

Maxim MAX4456 Key Applications

Table 3-38 3-92

LSI LinkXpress™ Crosspoint Switch Features

Table 3-39 3-93

LSI LinkXpress™ Crosspoint Switch Benefits

Table 3-40 3-93

LSI Crosspoint Switch Applications

Figure 3-41 3-95

LSI PCI Express Multi-Root Backplane Switch ASIC Functions

Figure 3-42 3-96

Fairchild Semiconductor Video Switch Matrices

Table 3-43 3-97

Fairchild Semiconductor Analog Crosspoint Matrices Features

TABLE 3-44 3-97



Fairchild Semiconductor Analog Crosspoint Matrices Benefits

Table 3-45 3-98

Fairchild Semiconductor Analog Crosspoint Matrices Applications

Table 2-46 3-99

Fairchild Semiconductor Crosspoint Switch Applications

Table 3-47 3-100

Zarlink MT8816 8x16 Analog Switch Array Features

Table 3-48 3-101

Zarlink Typical Crosspoint Switch Applications

Figure 3-49 3-103

Intel and Numonyx Stacked, Cross Point Phase Change Memory

Figure 3-50 3-104

Comparison of High Density Memory Technologies

Table 3-51 3-105

PCM vs. DRAM and NAND Functions

Figure 3-52 3-109

IBM Phase Change Memory Technology

Figure 3-53 3-110

IBM Phase Change Memory Signal Processing to Multilevel Storage

Digital Crosspoint Switch Technology

Figure 4-1 4-4

Crosspoint Switch as Way to Extend Moore's Law

Table 4-2 4-6

Primary Traffic Patterns In A Backplane Environment

Table 4-3 4-6

Primary Traffic Variables In A Backplane Environment

Table 4-4 4--10

Star Topology

Table 4-5 4-12

Mesh Topology

Table 4-6 4-14

Multipoint Topology

Table 4-7 4-16

Low Voltage Differential Signaling LVDS Standard Benefits

Table 4-8 4-17

Common Types Of Bus Configurations

Figure 4-9 4-18

Crosspoint Switch Bus Configurations

Figure 4-10 4-19

Crosspoint Switch Multidrop Bus Configurations

Figure 4-11 4-20

Crosspoint Switch Three Node Multidrop Bus Configurations

Table 4-12 4-21

Bus Configurations vs. Standard Comparison Table

Figure 4-13 4-27

Types of Communications ICs Used in Networking Equipment

Figure 4-14 4-35

Switch Architecture

Figure 4-15 4-37

Switch With Virtual Output Queues On The Ingress Side

Figure 4-16 4-38

Shared Memory in Switch Fabric

Figure 4-17 4-40

Buffered Crossbar Switch Architecture

Figure 4-18 4-41

Arbitrated Crossbar Crosspoint Switching

Table 4-19 4-44

Business Requirements Of Interconnect For Emerging Environment

Table 4-20 4-46

Switch Fabric Scheduling Algorithms

Table 4-21 4-49

Switch Chipset Redundancy

Table 4-22 4-51

Significant Developments In Crosspoint Switch Semiconductor Technology

Digital Crosspoint Switch Company Profiles

Table 5-1 5-2

Analog Devices Embedded In Electronic Equipment

Table 5-2 5-10

Analog Devices Industrial And Instrumentation Market Applications

Table 5-3 5-11

Analog Devices Defense/Aerospace Products

Table 5-4 5-12

Analog Devices Energy Management Segment Products

Table 5-5 5-13

Analog Devices Healthcare Segment Innovative Crosspoint

Switch Technologies

Table 5-6 5-14

Analog Devices Green Automotive Segment

Table 5-7 5-15

Analog Devices Safety Automotive Segment

Table 5-8 5-15

Analog Devices Comfort Automotive Segment

Table 5-10 5-17

Analog Devices Communications Segment Systems

Table 5-11 5-19

Analog Devices Crosspoint Switches

Figure 5-12 5-22

Hittite Microwave Collection of ICs Modules, and  
Subsystems from CD-110 GHz

Table 5-13 5-23

Hittite Microwave Broad Product Portfolio, Thirty-Five Product Lines

Figure 5-14 5-25

Hittite Microwave Range Of Wireless And Wired

Communications Applications

Table 5-15 5-33

Intersil Switches/MUXs/Crosspoints Products

Table 5-16 5-34

Intersil Products

Table 5-17 5-35

Intersil Products

Table 5-18 5-36

Intersil Voltage Products

Table 5-19 5-36

Intersil Products

Table 5-20 5-47

Lattice ispGDX2 Features

Table 5-21 5-54

LSI LinkXpress Crosspoint Switch Features

Table 5-22 5-57

LSI LinkXpress™ Crosspoint Switch Features

Table 5-23 5-57

LSI LinkXpress™ Crosspoint Switch Benefits

Table 5-24 5-58

LSI Crosspoint Switch Applications

Figure 5-25 5-59

LSI PCI Express Multi-Root Backplane Switch ASIC Functions

Table 5-26 5-61

Maxim Major End-Market Target Market Segments

Figure 5-27 5-65

Micrel Crosspoint Switch

Table 5-28 5-71

Mindspeed Products Sold To Original Equipment

Manufacturers (OEMs) For Network Infrastructure

Table 5-29 5-93

Gemtech GX4002 2x2 14.025Gb/s Crosspoint Switch Features

Table 5-30 5-94

Gemtech GX4002 2x2 14.025Gb/s Crosspoint Switch Applications

Table 5-31 5-102

Applications for TI Devices

Table 5-32 5-111

Thinklogical Digital Crosspoint Switch DCS Series Features

Table 5-33 5-112

Thinklogical Digital Crosspoint Switch DCS Series On-Board

Diagnostics Features

Table 5-34 5-113

Thinklogical Digital Crosspoint Switch DCS Series Cable

Management Features

Table 5-35 5-114

Thinklogical Digital Crosspoint Switch DCS Series

Graphical User Interface Features

Table 5-36 5-115

Thinklogical Digital Crosspoint Switch DCS Series Data

Center Design Features

Table 5-37 5-116

Thinklogical Digital Crosspoint Switch DCS Series Data

Center Solutions

Table 5-38 5-127

Vitesse Enterprise Switches

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