

# **Evolving High-Speed Backplane Connectors 6 to 40 Gb/s**

https://marketpublishers.com/r/E94A6DCB8EAEN.html

Date: May 2013

Pages: 217

Price: US\$ 4,500.00 (Single User License)

ID: E94A6DCB8EAEN

### **Abstracts**

Traditional, Midplane, Orthogonal, Ruggedized, Cable and Fiber Optic - 6 to 40+ Gb/s

Bishop and Associates, Inc. released a new 10-chapter 217 page research report providing a detailed analysis of the market for high-speed backplane connectors designed specifically to perform in 6 to 40 Gb/s circuits.

In addition to traditional backplane architecture, this new report provides insight on emerging packaging options that are spurring interest in midplane, orthogonal, ruggedized, cable, and fiber optic backplane connectors.



#### **Contents**

#### **CHAPTER 1 - REPORT SCOPE AND METHODOLOGY**

Survey Objectives
Connector Manufacturer Questions
OEM Questions
Methodology and Approach

#### **CHAPTER 2 - EXECUTIVE SUMMARY**

Executive Summary
High-Speed Backplane Connector Families

#### **CHAPTER 3 - INTRODUCTION**

Preface
Introduction to System Packaging

#### **CHAPTER 4 - HIGH-SPEED BACKPLANE CONNECTOR BASICS**

Common Backplane Architecture
Midplane Architecture
Orthogonal Midplane Architecture
High-Speed Transmission Line Issues
Defining Features of High-Speed Interfaces
Connector Selection Criteria
The Second Sourcing Imperative
Performance Measuring Systems
Test and Measurement Equipment
Comparison of Electrical Performance
Design Support provided by Connector Manufacturers

#### **CHAPTER 5 - HIGH-SPEED BACKPLANE SYSTEM ELEMENTS**

Driver and Receiver Technology
Printed Circuit Board Materials
Printed Circuit Board Design and Fabrication



#### **CHAPTER 6 - MARKET DRIVERS FOR HIGH-SPEED BACKPLANE CONNECTORS**

The Need for Speed

Supercomputers

Internet

Speed versus Density

The Influence of Industry Standards

# CHAPTER 7 - OVERVIEW OF CURRENT HIGH-SPEED BACKPLANE CONNECTORS

Amphenol TCS

**VHDM H Series** 

**VHDM RAM** 

e-HSD

GbX

GbX E/U Series

Ventura

Crossbow

XCede HD/LC/HDLC/Orthogonal

**VIPER** 

**ERNI** Components

ERmet Zd

ERmet Zd Plus / Zd HD

**FCI Electronics** 

AirMax VS

AirMax VSe / VS2

**ZipLine** 

ExaMAX

Molex

GbX I-Trac

**Impact** 

Impel

TE Connectivity

HS3

Z-PACK HM-Zd

TinMan

Z-Pack Slim UHD

STRADA Whisper



MultiGig RT-2R
3M Electronic Solutions Division
Ultra Hard Metric Connector

#### **CHAPTER 8 - ALTERNATIVE BACKPLANE SOLUTIONS**

Ruggedized Backplane Connectors
Cable Backplane Systems
Optical Backplane Connectors

#### **CHAPTER 9 - MARKET ANALYSIS AND FORECASTS**

#### Measurement Criteria

#### **Total World**

High-speed Backplane connector sales and forecast by type 2011 through 2017

High-speed backplane connector usage by type 2012 & 2017

High-speed backplane connector CAGR and Sales \$ by type

High-speed backplane connector sales by region 2012 & 2017

High-speed backplane connector sales by region 2011 through 2017

#### North America

High-speed Backplane connector sales and forecast by type 2011 through 2017

High-speed backplane connector usage by type 2012 & 2017

High-speed backplane connector CAGR and Sales \$ by type

#### Europe

High-speed Backplane connector sales and forecast by type 2011 through 2017

High-speed backplane connector usage by type 2012 & 2017

High-speed backplane connector CAGR and Sales \$ by type

#### Japan

High-speed Backplane connector sales and forecast by type 2011 through 2017

High-speed backplane connector usage by type 2012 & 2017

High-speed backplane connector CAGR and Sales \$ by type

#### China

High-speed Backplane connector sales and forecast by type 2011 through 2017

High-speed backplane connector usage by type 2012 & 2017

High-speed backplane connector CAGR and Sales \$ by type

#### Asia Pacific

High-speed Backplane connector sales and forecast by type 2011 through 2017

High-speed backplane connector usage by type 2012 & 2017

High-speed backplane connector CAGR and Sales \$ by type



#### **ROW**

High-speed Backplane connector sales and forecast by type 2011 through 2017 High-speed backplane connector usage by type 2012 & 2017 High-speed backplane connector CAGR and Sales \$ by type

#### **CHAPTER 10 - MAJOR FINDINGS AND CONCLUSIONS**

Backplane Connectors
Orthogonal Midplane Connectors
Ruggedized Backplane Connectors
Cable Backplane Connectors
Fiber optic Backplanes

#### **APPENDIX A - TERMS AND DEFINITIONS**

Connector Definitions, Acronyms and Technologies



#### I would like to order

Product name: Evolving High-Speed Backplane Connectors 6 to 40 Gb/s
Product link: <a href="https://marketpublishers.com/r/E94A6DCB8EAEN.html">https://marketpublishers.com/r/E94A6DCB8EAEN.html</a>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

## **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/E94A6DCB8EAEN.html">https://marketpublishers.com/r/E94A6DCB8EAEN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:	
Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970