## TABLE OF CONTENTS

### LIST OF FIGURES

### I. INTRODUCTION AND KEY FINDINGS
1.1 Key Findings  
1.2 Methodology  
1.3 Report Structure

### II. 10GE MARKET AND TECHNOLOGY TRENDS
2.1 Market Trends  
2.2 Leading Applications  
2.3 Typical Systems  
2.4 10GE Standards  
   - 10GBase-X  
   - 10GBase-R  
   - 10GBase-W  
2.5 Optical Transponder Technology  
2.6 PHY Silicon  
2.7 Electronic Dispersion Compensation (EDC)  
2.8 10GE Over Twisted Pair

### III. 10GE COMPONENT SUMMARY
3.1 Switching and Backplane  
3.2 Line Card  
3.3 Stackable Switches

### IV. TRANSPONDER ANALYSIS
4.1 Multi-Source Agreements  
4.2 300-Pin Transponders  
4.3 XENPAK Transponders  
4.4 XPAK Transponders  
4.5 X2 Transponders  
4.6 XFP Transceiver Modules

### V. TRANSPONDER VENDORS
5.1 Leading 10GE Transponder Vendors  
   - Agilent Technologies  
   - Infineon Technologies  
   - Intel  
   - JDS Uniphase  
   - Network Elements  
   - Opnext  
5.2 Other 10GE Transponder Vendors  
   - Avanex  
   - Bookham Technology  
   - Civcom  
   - E2O Communications  
   - Emcore  
   - Finisar  
   - Fujitsu Quantum Devices  
   - Gtran
VI. PHY ANALYSIS
6.1 XSBI PHYs
6.2 XSBI Transceivers
6.3 XAUI Transceivers
6.4 XAUI-10G Serial PHYs
6.5 XAUI Retimer and Backplane Muxes
6.6 XGMII-XFI PHYs
6.7 10-Gbit/s Serial Retimers

VII. PHY VENDORS
7.1 Leading 10GE PHY Vendors
   – Broadcom
   – Intel
   – Marvell Technology Group
   – PMC-Sierra
   – Quake Technologies
   – Vitesse Semiconductor
7.2 Other 10GE PHY Vendors
   – Accelerant Networks
   – Aeluros
   – Ample Communications
   – AMCC
   – BitBlitz Communications
   – Gennum
   – Infineon
   – Motorola
   – Mysticom
   – Paxonet
   – Phyworks
   – Scintera Networks
   – SolarFlare Communications
   – Texas Instruments
   – Velio Communications
   – Xilinx

APPENDICES
A Transponder Tables
B PHY Tables
C Glossary of Abbreviations
D About the Author
E Legal Disclaimer