



Technical Seminar Series

Be Smart — Choose the Right Part

Welcome to “Connectors: The Race for Space”



Today’s mezzanine cards deliver enhanced system performance, flexibility and upgradeability. As system and board designers continue to pack more sophisticated sub-systems into smaller form factors, the connector interface is becoming a critical factor in mezzanine card design and functionality.

Listen as experts from Bishop & Associates, FCI, Molex and Tyco offer insight and advice on the latest technology, design features and benefits of high performance mezzanine connectors.



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Be Smart — Choose the Right Part

Welcome – Michael Knight, TTI, Inc.

Technology Options

Market Overview – Bishop & Associates

- Robert Hult

MEG Array® and GIG Array® – FCI

- Grace S. Showers

Mezzanine Solutions – Molex

- David Brearley

2 PC Mezzanine Interconnects – Tyco

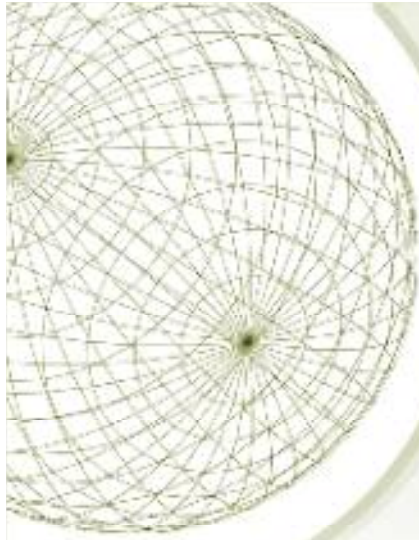
- John Larkin

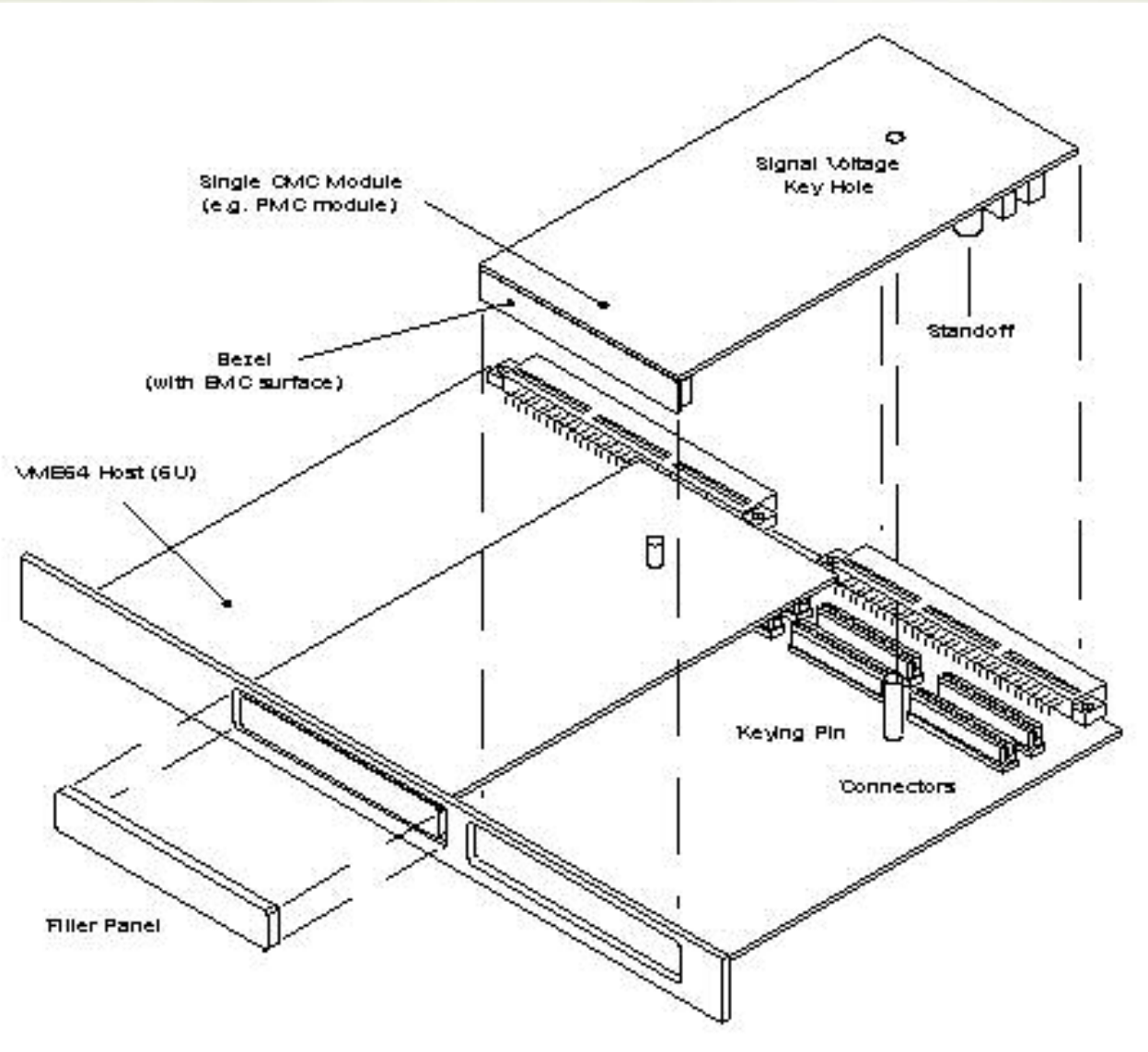
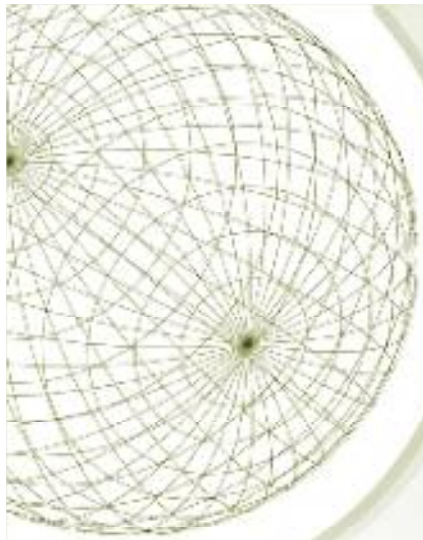
Q&A

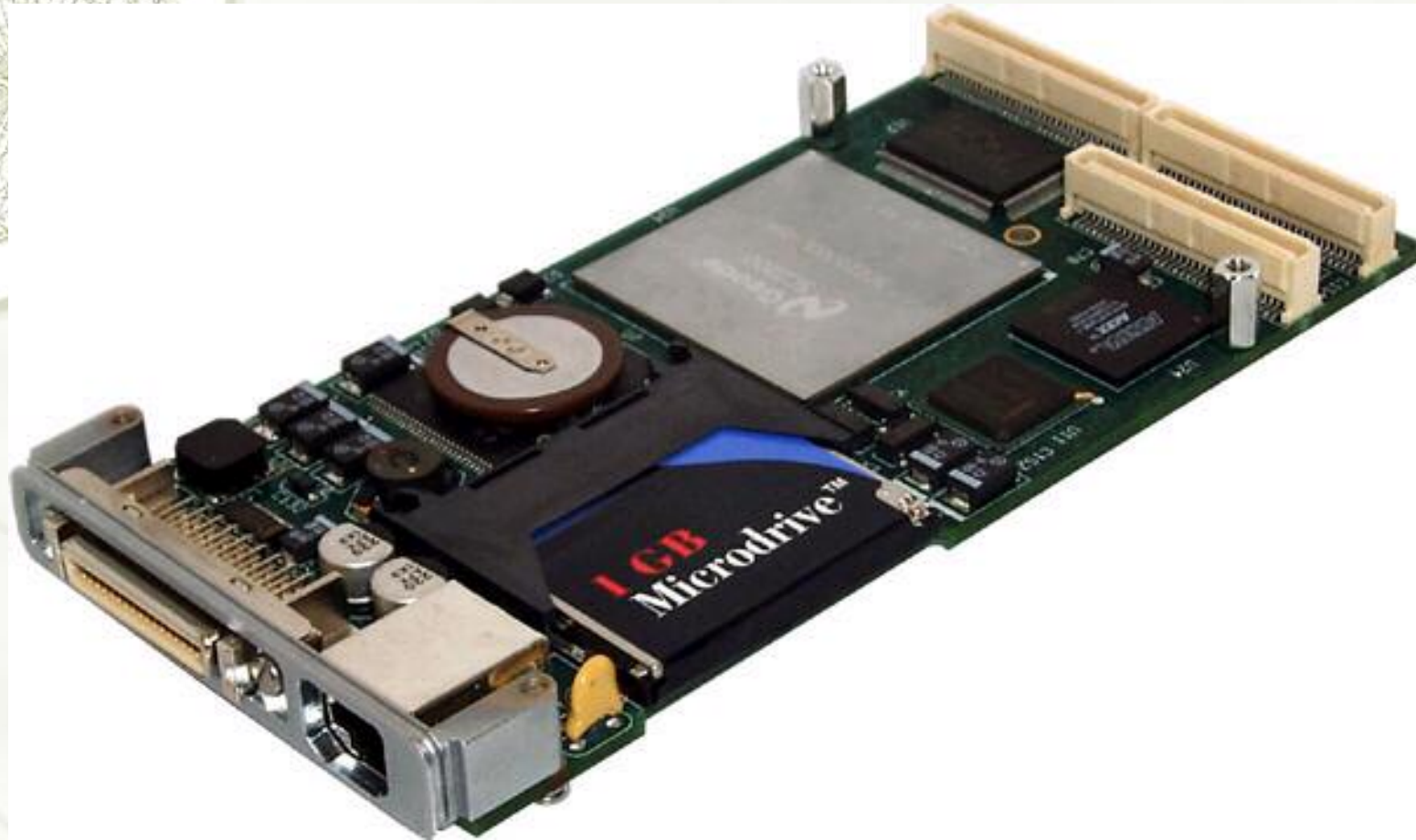
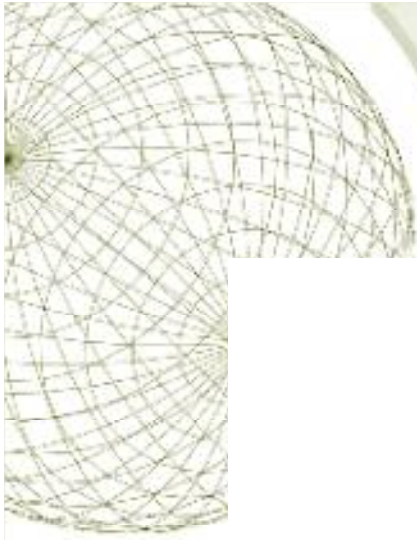


Mezzanine Card Architecture

*Bob Hult
Director of Product Technology
Bishop & Associates Inc.*







Technobox Inc.



Market Drivers

- 1. Increased Packaging Density*
- 2. Faster Data Rates*
- 3. Higher Pin Counts*
- 4. Scalability / Modularity*
- 5. Industry Standards Support*
- 6. Reduced Risk/Time to Market*
- 7. Reduced Cost*



Mezzanine Architecture Offers:

- 1. Improved Packaging Density*
- 2. System Partitioning*
- 3. Simplified Routing*
- 4. Reduced layer count*
- 5. Upgradeability*
- 6. Flexible I/O options*
- 7. Flexible device population*
- 8. Electrical Isolation*
- 9. Improved cooling efficiency*



Standards Facilitate Mezzanine Choices

- 1. PMC*
- 2. Mix Bus*
- 3. XMC*
- 4. IndustryPack*
- 5. AMC*
- 6. Com Express*



Low Profile Mezzanine offers:

- 1. High Packaging Density*
- 2. High Speed Performance*
- 3. FEC Separable Interface*



High Speed Mezzanine

- 1. Open Pin Field Connectors*
- 2. External / Internal Shields*
- 3. Optimized for Serial
Differential Signaling*
- 4. Extensions of H.S. Backplane
Connectors*



Key Points

- 1. Flexibility,
Manufacturer and User*
- 2. Comfort Factor
Standards Supported*
- 3. Support Emerging Market for
Plug Compatible Modules*
- 4. Modular Design Shortens Design
Cycles, Reduces Cost*