

Z-PACK TinMan 85 Ohm Connector

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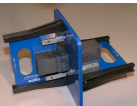
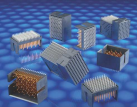
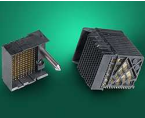
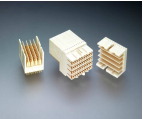
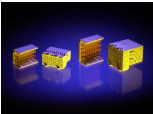
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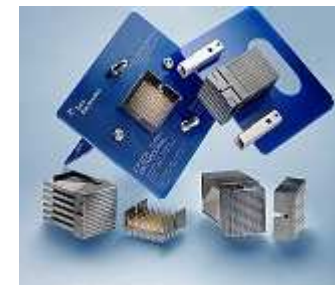
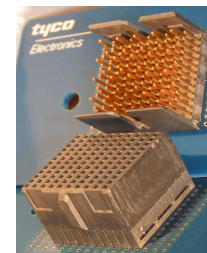
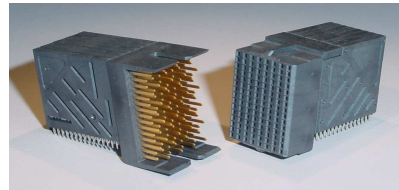
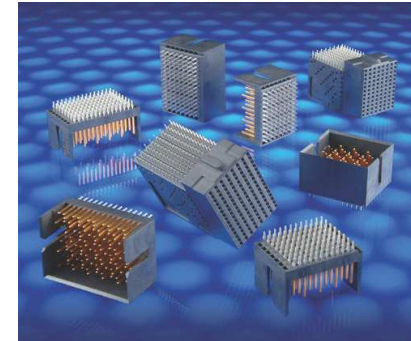
High Speed Backplane Connector Summary

	3-6 Gb/s	6-10 Gb/s	10-15 Gb/s	15-20 Gb/s	20-25 Gb/s	25+ Gb/s
	Z-PACK TinMan Orthogonal 6x12 Connectors			Z-PACK TinMan Orthogonal 6x6 Connectors		Z-PACK TinMan Connector Family
	Z-PACK TinMan Connectors (100 Ω and 85 Ω versions)			Z-PACK TinMan Plus Connectors		
	Impact Offered by Tyco Electronics					
	Z-PACK Slim UHD Connectors					
	Z-PACK HM-Zd Connectors			Z-PACK HM-Zd Plus Connectors		

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Z-PACK TinMan Connector System Available Configurations

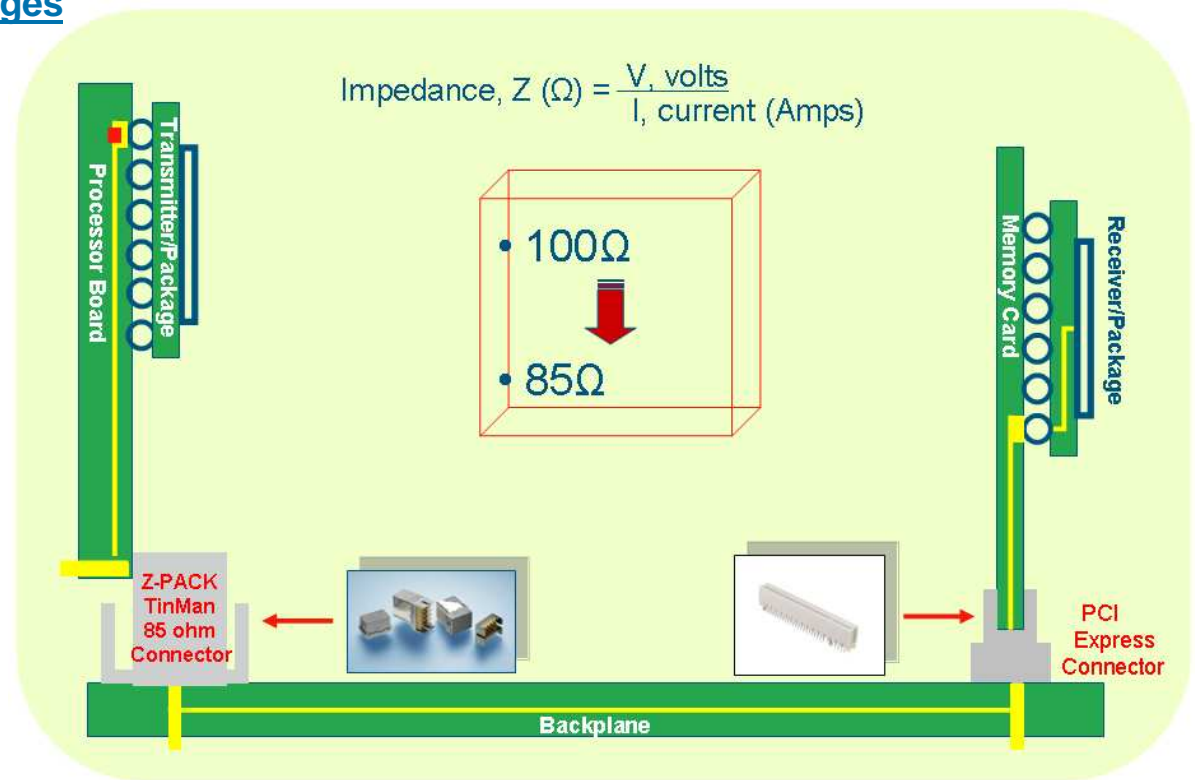
- Traditional backplane configuration
 - Vertical header to R/A receptacle
 - 3, 4, 5 and 6 pair versions
- Co-planar applications
 - R/A header to R/A receptacle
 - 3, 4 and 5 pair versions
- Mezzanine applications
 - Vertical header to vertical receptacle
- **85 Ohm Modules** 
 - **3 and 5 pair versions**
- Cable Assemblies – 5 Pair Version
- Midplane cross-connect (“orthogonal”) applications



The transition from 100 Ohm to 85 Ohm System Impedance

85 Ohm Differential System Advantages

- Reduced PCB thickness/cost
- Fewer/less reflection in the system link
- Better impedance match for all components in the system link



Ω = ohms





Z-PACK TinMan 85 Ohm Connector System

- Current systems are designed around a 100 Ohm differential impedance
- PCI Express 2.0 Bus standard is designed for an 85 Ohm differential impedance
- Optimal package impedance for PCI Express 2.0 standard chips are 85 Ohm
- It is expected that the entire system electrical channel will evolve to an 85 Ohm differential impedance in the future
- Matching silicon package and channel impedances to 85 Ohm will minimize discontinuities and help to maximize signal throughput
- **TE Connectivity is the first to design and tool an 85 Ohm portfolio of products in the Z-PACK TinMan connector family to support this emerging change**



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Z-PACK TinMan 85 Ohm Connector System - Product Selection Matrix

		3 Pair	5 Pair	
Connector Type		10 Column	8 Column	10 Column
	Right Angle Receptacle	1934951-1		1934932-1
	Right Angle Header	1934950-1	1934947-1	
	15mm Stack Height Vertical Receptacle		1934949-1	2065024-1
	Vertical Header Double End Wall		1934948-1	2065025-1

Z-PACK TinMan 85 Ohm Connector System

For more information on our TE Connectivity
Z-PACK TinMan 85 Ohm connector system,
please visit our website at:

<http://te.com/products/tinman85ohm>

THANK YOU