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Technical Information – Trenton PICMG 1.3 Backplanes Compatible with the TSB7053 (7053-xxx) System Host Board

The TSB7053 is a standard PICMG 1.3 SHB that will function with a wide variety of industry standard PICMG 1.3 backplanes. However, some non-Trenton backplanes may not utilize the full capabilities of the Trenton TSB7053 boards. The table below illustrates the TSB7053 compatibility with the current listing of Trenton PICMG 1.3 backplanes. A "Yes" in the compatible column below means that all slots on the backplane will function with a TSB7053 board. The clarification column explains any limitations of using a TSB7053 single processor SHB with a particular backplane. We are continuously adding backplanes to our product line so contact us or visit our website to learn about the latest Trenton PICMG 1.3 backplane availability listings.

PICMG 1.3 Backplane	Compatible with TSB7053 (i.e. all backplane slots are functional)	Why not or clarification
2U Butterfly Backplanes		
BPC8219	Yes	
BPG6741	Yes	
BPX6736*	Yes	
Multi-Segment Backplanes		
BP6FS6605	No	SHB segment spacing
BP4FS6890	Yes, use Graphics Class configuration	
BP2S6929	Yes	
Combo Backplanes		
BPC7041	No, the TSB7053 does not support the PEX10 for PCIe link expansion	PEX10 needed to provide the links for BP slots PCIe 1 through PCIe4
BPC7009*	Yes	
Server-Class Backplanes		
BPX8093	No, the TSB7053 does not support the PEX10 for PCIe link expansion	PEX10 needed to provide the links for BP slots PCIe1 and PCIe2
BPX6806*	Yes, need IOB33 for PCIe1 slot	TSB7053 provides x4 via IOB33
BPX6620*	Yes, need IOB33 for PCIe1 slot	TSB7053 provides x4 via IOB33
BPX6610*	Yes	
BPX6571*	Yes	
BPX3/14*	No	Short one x4 PCIe link
BPX3/8*	Yes	
BPX6719	Yes, need IOB33 for PCIe1 slot	TSB7053 provides x4 via IOB33
BPX3/2*	Yes	
BPX5*	Yes, need IOB33 for PCIe1 slot	TSB7053 provides x4 via IOB33
Graphics-Class Backplanes		
BPG8150	No, the TSB7053 does not support the PEX10 for PCIe link expansion	PEX10 needed to provide the links for BP slots PCIe 1 and PCIe2
BPG8032	Yes	
BPG7087	Yes, need IOB33 for PCIe1 slot	
BPG6615	Yes	
BPG6600	Yes	
BPG6544	Yes	
BPG6714	Yes, need IOB33 for PCIe1 slot	TSB7053 provides x4 via IOB33
BPG2/2*	Yes	
BPG4*	Yes, need IOB33 for PCIe1 slot	TSB7053 provides x4 via IOB33

*Backplane does not have an SHB edge connector D slot. The backplane will function OK, but the system designer should ensure the exposed SHB edge connector D pins are protected from potential damage