

## Technical Information – Trenton PICMG 1.3 Backplanes Compatible with the BXT7059 & BXTS7059 (7059-xxx) System Host Boards

The BXT7059 and BXTS7059 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 BXT7059 and BXTS7059 boards. The table below illustrates the BXT/BXTS electrical 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 BXT7059 board. The clarification column explains any specific backplane limitations; such as mechanical option card slot interferences. Trenton continuously adds backplanes to our product line. Contact us or visit our website for the latest backplane availability.

PICMG 1.3 Backplane	Compatible with BXT7059 / BXTS7059 (i.e. all backplane slots are functional)	Why not or clarification
<b>2U Butterfly Backplanes</b>		
BPC8219	Yes	
BPG6741	Yes, option card slot restrictions	PCIe4 slot accommodates single width cards only
BPX6736	Yes, option card slot restrictions	PCIe2 slot obstructed*, PCIe4 slot accommodates single width cards only
<b>Multi-Segment Backplanes</b>		
BP6FS6605	No	SHB segment spacing
BP4FS6890	Yes, option card slot restrictions	The first and second PCIe slots in each segment are obstructed* and the third slot in any segment accommodates single-width cards only
BP2S6929	Yes, option card slot restrictions	SLTA1 and SLTC1 slots are obstructed*, SLTA2 and SLTC2 accommodate single-width cards only
<b>Combo Backplanes</b>		
BPC7041	Yes for the BXT7059 with a PEX10	CPU2 needed to provide the links for BP slots PCIe 1 through PCIe4
BPC7009	No	Link compatibility issue
<b>Server-Class Backplanes</b>		
BPX8093 <sup>#</sup>	Yes	Requires BXT7059 with PEX10 for PCIe1 and PCIe3 slot functionality
BPX6806 <sup>#</sup>	Yes, option card slot restrictions	PCIe1 slot obstructed*, PCIe2 slot accommodates single-width cards only
BPX6620 <sup>#</sup>	Yes, option card slot restrictions	PCIe1 slot obstructed*, PCIe2 slot accommodates single-width cards only
BPX6610	Yes, option card slot restrictions	PCIe1 slot obstructed*, PCIe2 slot accommodates single-width cards only
BPX6571	Yes, option card slot restrictions	PCIe1 slot obstructed*, PCIe2 slot accommodates single-width cards only
BPX3/14 <sup>#</sup>	Yes, need IOB33 for PCIe2 slot	BXT7059 provides x4 via IOB33
BPX3/8	Yes, option card slot restrictions	SLTD1 card slot obstructed*, SLTD2 slot accommodates single-width cards only
BPX6719 <sup>#</sup>	Yes, need IOB33 for PCIe1 slot	PCIe1 slot obstructed*, PCIe2 slot accommodates single width cards only
BPX3/2	Yes, option card slot restrictions	PCIe1 & PCIe2 slots obstructed*, SLTA1 slot accommodates single-width cards only
BPX5 <sup>#</sup>	Yes, option card slot restrictions	PCIe1 slot obstructed*, PCIe2 slot accommodates single-width cards only
<b>Graphics-Class Backplanes</b>		
BPG8150	Yes	Requires BXT7059 with PEX10 for PCIe1 and PCIe2 slot functionality
BPG8032	Yes, option card slot restrictions	PCIe1 & PCIe2 slots obstructed*, PCIe3 slot accommodates single-width cards only
BPG7087 <sup>#</sup>	Yes, need IOB33 for PCIe1 slot	BXT7059 provides x4 via IOB33
BPG6615	Yes, option card slot restrictions	PCIe2 slot accommodates single-width cards only
BPG6600	No	32b/33MHz slots C1, C2, C3 & C4 are inoperative when using a BXT7059 SHB
BPG6544	No	32b/33MHz slots C1, C2, & ISA slots D1 & D2 are inoperative when using a BXT7059 SHB
BPG6714 <sup>#</sup>	Yes, option card slot restrictions	PCIe1 slot obstructed*
BPG2/2	Yes, option card slot restrictions	PCIe2 slot obstructed*, SLTA1 slot accommodates single-width cards only
BPG4 <sup>#</sup>	Yes, option card slot restrictions	PCIe1 slot obstructed*, PCIe2 slot accommodates single-width cards only

\*Slot obstruction generally only applies to I/O cards that are longer than 4.3" (109.2mm). Contact Trenton for additional information

<sup>#</sup>An optional IOB33 plug-in card is needed on the BXT/BXTS board to provide the x4 PCIe link to drive either the PCIe1 or PCIe2 option card slot.