*This Technical Advisory describes an issue which may or may not affect the customer's product*

# Intel Technical Advisory

**TA-1006-1**

5200 NE Elam Young Parkway
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## INTEL® SERVER SYSTEM P4000IP/R2000IP AND WORKSTATION SYSTEM P4000CR INPUT/OUTPUT (I/O) MODULE (IOM) CONNECTOR SUPPORTS PCI EXPRESS (PCIE) GEN1 SPEEDS ONLY



**Products Affected**

The following Intel® Server and Workstation Systems based on Intel® C600 chipset:

- Intel® Server System P4000IP Family
- Intel® Server System R2000IP Family
- Intel® Workstation System P4000CR Family

**Description**

The I/O module (IOM) connector of above mentioned Intel® Server and Workstation Systems supports PCIe Gen1 speeds only. All Intel® I/O modules will run at PCIe Gen1 speeds in these systems even though the modules support PCIe Gen2/3 speeds. Installing an Intel® I/O module may result in sub-optimal performance on these products.

**Root Cause**

This is a current I/O module Connector limitation.

**Corrective Action / Resolution**

Intel is working on feature improvements and may have a product refresh to support PCIe Gen2/3 speeds in the future.

**Workarounds**

If I/O performance is a concern in customer applications and they need higher I/O performance, please use PCIe form factor add-in boards, rather than the Intel® I/O Modules. The Intel® I/O Module AXX4P1GBPWLIOM will not have this performance drop due to the fact that PCIe Gen1 bandwidth can meet it's transmission requirement.

Please contact your Intel Sales Representative if you require more specific information about this issue.

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