



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

Intel Technical Advisory

TA-1025-1

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Management NIC port embedded in AH2000JF6GKIT, AH2000WP6GKIT and A1UJP6GKIT does not achieve IEEE 802.3 Bit Error Rate (BER) objective

Products Affected

Intel® Server Accessory AH2000JF6GKIT, AH2000WP6GKIT and A1UJP6GKIT (Note that these all contain the same base design SAS board with accessories specific to the Intel® Server Board that they are designed to attach to.)

Description

Testing of Intel® Server Accessories AH2000JF6GKIT, AH2000WP6GKIT and A1UJP6GKIT show that the RX signal of the Dedicated Management NIC port exhibits consistent Bit Error Rates (BER) of from 10^{-6} to 10^{-9} under either 100Mbps or 1Gbps speed. This exceeds the IEEE objective for media redirection of 10^{-12} . As a result, media redirection data transfer may be negatively affected.

Aside from media redirection, all other RAID function and other server management features (RMM4-based) – which all utilize the TX signal which meets the IEEE 10^{-12} objective -- behave as expected per Intel Documentation.

Root Cause

The RX signal routing from the add-in board RJ45 connector to the BMC is not optimal; however was necessary to accommodate space constraints for the systems in which the AH2000JF6GKIT, AH2000WP6GKIT or A1UJP6GKIT are intended. For future generations of Intel half-width server boards, this issue will be addressed with a new design. However, it is not practical or timely to redesign the affected products for this current generation.

Corrective Action / Resolution

There is no corrective action. It is recommended that anyone choosing to use the management NIC port of the AH2000JF6GKIT, AH2000WP6GKIT and A1UJP6GKIT thoroughly test this port in a pre-production environment that includes all essential networking equipment to ensure it will function satisfactorily prior to use in a production environment.

Recommended Customer Action

Customers should assess usage of the NIC included with accessory kit AH2000JF6GKIT, AH2000WP6GKIT and A1UJP6GKIT for RMM4 server management connectivity and Media Redirection functionality prior to use in a business environment. If testing of the production environment is not possible prior to system delivery, special documentation or instruction may be required to alert end-users to perform adequate testing prior to production use.

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

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