

Sun Quad Port GbE PCIe 2.0 Low Profile Adapter, UTP

Product Notes



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Important Information About the Sun Quad Port GbE PCIe 2.0 Low Profile Adapter, UTP

These product notes contain information about new features, known limitations, and documentation updates for the Sun Quad Port GbE PCIe 2.0 Low Profile Adapter, UTP, from Oracle.

New issues are added to the product notes as needed. Be sure to read the most recent version of the product notes that is available on the web. For the most recent version of the product notes, go to the Oracle documentation portal at the following site:

<http://www.oracle.com/technetwork/documentation/oracle-net-sec-hw-190016.html>

Intel GbE Driver Support for Linux and Windows

Information on the Intel GbE drivers for Linux and Windows, including tools and documentation, is at the following web site:

http://www.intel.com/p/en_US/support/highlights/network/esa-i350-t4

Hardware and OS Software Support

The Sun Quad Port GbE PCIe 2.0 Low Profile Adapter, UTP, is supported on various hardware platforms running either the Oracle Solaris (SPARC or x86), Linux, or Windows operating environment.

To obtain a list of the currently supported hardware and operating environment versions, go to the product web page at:

<http://www.oracle.com/us/products/servers-storage/networking/ethernet/index.html>

Known Issues

Each known change request (CR) is listed by its synopsis and its CR number. Each entry describes the issue and provides a workaround, if one is available. Check the latest status of CRs at:

<http://support.oracle.com>

Links Do Not Work Correctly After Running Oracle VTS and Internal Loopback Test Fails (CR 7147018 and CR 7008767)

Performing an internal network loopback test with Oracle SunVTS on Sun Quad Port PCIe 2.0 Gigabit Ethernet Networking Cards might result in a test failure and improperly working links.

Workaround: Avoid using Oracle SunVTS network loopback test. If you ran the test and the links are not working properly, try the following solutions, depending on the operating system.

For the Oracle Solaris 10 OS, perform these steps:

1. Reboot the system.
2. Power cycle the system.
3. Download, and apply the latest patches.

If downloading the latest patch does not solve the issue, contact your Oracle service provider.

For the Oracle Solaris 11 OS, update the system with the latest service patches.

Network Latency Under Oracle OpenSolaris Is Three Times Slower Than Solaris 10 5/09 (CR 6933376)

Starting with Solaris 10 10/09, you could see network latency spikes. This issue is related to the Intel power management feature and deep C-state. When a CPU is idle, it can either halt until it is woken up, or the CPU can spin. MWAIT and HLT can halt a CPU, but they have different wakeup mechanisms. Deeper C-states are greater power-saving halt states, but they can also cause longer wake-up times.

Workaround: Add these entries in the `/etc/system` file then reboot both systems.

```
...
set idle_cpu_prefer_mwait=0
set idle_cpu_no_deep_c=1
...
```

When only `idle_cpu_no_deep_c=1` is set, the system only uses the C1 halt state. Thus, you must set both states. This works with either HLT or MWAIT.

Related Documentation

Documentation	Links
All Oracle products	http://www.oracle.com/documentation
Sun Quad Port GbE PCIe 2.0 Low Profile Adapter, UTP	http://www.oracle.com/pls/topic/lookup?ctx=SQP_GbE-PCIe2.0-LP_UTP

Documentation	Links
Oracle Solaris 10 Operating System	http://docs.oracle.com/cd/E23823_01/index.html
Oracle Solaris 11 Operating System	http://docs.oracle.com/cd/E23824_01/index.html
Oracle Solaris OS and systems software library	http://www.oracle.com/technetwork/indexes/documentation/index.html#sys_sw

Feedback

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