

**10GigEthr-00 (ixgbe)
10 Gigabit Ethernet Driver
for HP-UX 11i v1
of September 2005
Release Notes**

For ixgbe Driver Version B.11.11.01

HP 9000 Systems



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What's in this Version

The following information is for the **10GigEthr-00 (ixgbe)** gigabit Ethernet Driver for HP-UX 11i v1 of September 2005. The **ixgbe** driver supports the AB287A 10 Gigabit Ethernet card.

You can check to see if this driver is present on your system by running the commands described in “How to Verify that the Correct Driver is in the Kernel” in this document.

The September 2005 HP-UX 11i v1 release contains a software bundle called **10GigEthr-00** that includes everything needed to run the AB287A 10 Gigabit Ethernet card on HP-UX 11i v1. To install 10 Gigabit Ethernet for HP-UX 11i v1, just load either the single **10GigEthr-00** bundle or the entire operating environment (OE) from the distribution media. If you are adding the driver from the September 2005 application media, the rest of these notes are for information only.

If you downloaded the HP-UX 11i v1 10GigEthr-00 driver from the web, you need at least patch PHNE_32396 described below. The HP-UX 11i v1 September 2005 release contains the following:

NOTE The following patches are required only if you have downloaded the HP-UX 11i v1 version of the 10GigEthr-00 driver from the web. For all others (if loading from CD or DVD), it is information only on the contents of the September 2005 release.

- PHNE_32396 -- Patch for the data link provider interface (DLPI). Patch PHNE_32396 is also available on the HP Information Technology Resource Center (ITRC). Patches are also available for downloading at: <http://itrc.hp.com>. Select “patch database,” and search for the needed patch number. If not already registered, you can register for free on the ITRC home page.
- PHCO_31314 -- Patch to use the System Admin Mgr (SAM) for configuring 10 Gigabit Ethernet on HP-UX 11i v1.
- Transport Optional Upgrade Release (TOUR) 2.4 software is required to enable TCP segmentation offload (TSO) for use with 10 Gigabit Ethernet on HP-UX 11i v1. You can download it from the software depot at the following URL:
<http://h20293.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=TOUR>

10 Gigabit Ethernet Functionality Not on HP-UX 11i v1

The HP-UX 11i v1 10 Gigabit Ethernet product does not support use of multi-queue functionality. Multi-queue is supported on HP-UX 11i v2.

Overview of Software Installation Process

The installation media for the September 2005 release of HP-UX 11i v1 consists of two DVDs -- one with the Operating Environment (OE) and the other with applications. If you load the latest OE, you will then be able to select and load the latest 10 gigabit Ethernet driver bundle including the **ixgbe** driver described in this document. The **ixgbe** driver resides in a software set or “bundle” named **10GigEthr-00**.

Install the Operating Environment according to the instructions in the *Installation and Update Guide HP-UX 11i Version 1*. The operating environment version should show as B.11.11 when you type: **uname -a** at the system prompt.

For instructions on how to install and configure your network card’s hardware and software, refer to the *AB287A PCI-X 10 Gigabit Ethernet Card Installation Guide* available on the web at <http://docs.hp.com> under “Networking and Communications” and then under “10 Gigabit Ethernet.” If the network card was factory installed (ordered on product option 0D1), the 10 gigabit Ethernet LAN driver for this card will already be on your system disk but will still need to be assigned an IP address and possibly other settings.

How to Verify that the Correct Driver is in the Kernel

When using the September 2005 release of HP-UX 11i v1, the 10 gigabit Ethernet cards (AB287A) require the **ixgbe** B.11.11.01 driver from the **10GigEthr-00** bundle. To verify that the driver was loaded in the kernel, execute the following command:

```
what /stand/vmunix |grep ixgbe
```

You should see a response like:

```
ixgbe_ilan Version: 1 Jul 04 2005  
ixgbe Revision: B.11.11.01 Jul 04 2005
```

List of Related Documentation

Following is a list of documents related to this product. They are available on the web at <http://docs.hp.com> under “Networking and Communications” and then “10 Gigabit Ethernet.” The following documents are also available on the Instant Information DVD if you have an HP support contract.

- *AB287A PCI-X 10 Gigabit Ethernet Card Installation Guide*
Provides step-by-step instructions on how to install and configure the hardware and software.
- *Ethernet Support Guide*
Provides information on advanced features and detailed information on troubleshooting gigabit and 10 gigabit Ethernet cards.
- *Installation and Update Guide HP-UX 11i Version 1*
Provides information on installing the Operating Environment whether on a new or existing system.