

# Sun 10GbE XFP SR PCI Express Card, Sun Dual10GbE XFP 2 SR PCI Express Card, and Sun Dual 10GbE SFP+ PCIe ExpressModule

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Release Notes



**ORACLE®**

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# Release Notes

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This document provides late news about installation and use of Oracle's Sun 10GbE XFP SR PCI Express card, the Sun Dual 10GbE XFP 2 SR PCI Express card, and the Sun Dual 10GbE SFP+ PCIe ExpressModule. It also contains information about the drivers and software for these network adapters.

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**Note** – The *Sun 10GbE XFP SR PCI Express Card User's Guide* and the *Sun Dual 10GbE XFP 2 SR PCI Express Card User's Guide* have been combined. The new document, which describes both products, is called the *Sun 10GbE XFP SR PCI Express Card and Sun Dual 10GbE 2 SR PCI Express Card User's Guide*, Sun part number 820-4416-11.

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## This Product Update

Beginning with this update, the PCI Express cards and the ExpressModule support the Solaris Operating System. The first version of the Solaris OS to support these cards is Solaris 10 10/08.

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**Note** – The ExpressModule (but not the Express cards) requires one or more patches for use on systems running Solaris. Please check <http://sunsolve.sun.com> for the latest patches to the `ixgbe` device driver.

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## Driver Software

An Intel web site provides information about driver software for each of these Sun products:

- Sun 10GbE XFP SR PCI Express card:

[http://downloadcenter.intel.com/Product\\_Filter.aspx?ProductID=2913&lang=eng](http://downloadcenter.intel.com/Product_Filter.aspx?ProductID=2913&lang=eng)

- Sun Dual 10GbE XFP 2 SR PCI Express card:

[http://downloadcenter.intel.com/Product\\_Filter.aspx?ProductID=2914&lang=eng](http://downloadcenter.intel.com/Product_Filter.aspx?ProductID=2914&lang=eng)

- Sun Dual 10GbE SFP+ PCIe ExpressModule:

[http://downloadcenter.intel.com/Product\\_Filter.aspx?ProductID=3033&lang=eng](http://downloadcenter.intel.com/Product_Filter.aspx?ProductID=3033&lang=eng)

The user's guide for each Sun card and ExpressModule includes instructions on downloading driver software from the Intel web site.

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## Known Issues

This section describes software bugs known at the time of this release that you might notice, or that can affect the operation of the Express cards or ExpressModule when used with some servers.

For the most current information about issues affecting this product, go to:  
<http://sunsolve.sun.com>

### Pair of Dual-Port Cards Fail to Communicate When Configured With More Than One Teaming (CR 6661632)

In a system with two Sun Dual 10GbE XFP 2 SR PCI Express cards or two Sun Dual 10GbE SFP+ PCIe ExpressModules running Windows Server 2003, when each of the cards is teamed, the two cards fail to communicate.

**Workaround:** In a back-to-back connection, use only one team. Use the switch configuration for multiteaming.

### Enabling the ExpressModule to Boot From the Network (CR 6718580)

The Sun Dual 10GbE SFP+ PCIe ExpressModule from Oracle now can support booting through the network.

To determine if your ExpressModule is ready to support booting through the network, refer to the label on the ExpressModule.

- If the Sun part number 375-3591-01 on the label indicates Rev. 51, the device is ready to support booting through the network.
- If the label indicates Rev. 50, you must perform a procedure, [“To Enable Booting From the Network” on page 3](#), before the device is ready to support booting from the network.

When your ExpressModule is ready to support booting from the network, you can make use of the instructions in the “Network Configuration” chapter of the *Sun Dual 10GbE SFP+ PCIe ExpressModule User’s Guide* (820-4979).

## ▼ To Enable Booting From the Network

1. Go to this Intel web page:

[http://downloadcenter.intel.com/Product\\_Filter.aspx?ProductID=3033](http://downloadcenter.intel.com/Product_Filter.aspx?ProductID=3033)

2. Select All Operating Systems from the menu.
3. Select Intel Boot Agent for Intel 10 Gigabit SR Dual Port ExpressModule.  
Complete the download for this item.
4. Copy IBAUtil to a disc or USB stick that can be read on the system you want to upgrade.
5. On the system you want to upgrade, use the disc or USB stick to boot to DOS.
6. Enter this command:

```
IBAUtil
```

Output similar to this is displayed:

```
Intel® Boot Agent Utility

IBAUTIL version 1.10.00.06

Copyright (C) 2002-2008 Intel Corporation

NIC Network Address Series WOL Boot ROM Type          Version
=== =====
 1  001B21209F51    10GbE  N/A FLASH Disabled
 2  001B21209F50    10GbE  N/A FLASH Disabled
```

**7. Enter this command:**

```
IBAUtil -nic=1 -fe
```

This message is displayed:

```
Enabling Boot ROM on NIC 1..done  
Reboot the system to enable the FLASH(PXE boot code) on NIC 1.
```

To enable the second port, enter this additional command before you reboot:

```
IBAUtil -nic=2 -fe
```

**8. Reboot the system to DOS.**

**9. Enter this command:**

```
IBAUtil -up -nic=1 -auto
```

Or, if you are using two ports, enter these two commands:

```
IBAUtil -up -nic=1 -auto  
IBAUtil -up -nic=2 -auto
```

Output similar to this is displayed:

NIC	Network Address	Series	WOL	Boot ROM Type	Version
1	001B21209F51	10GbE	N/A	FLASH Enabled	2.1.11
2	001B21209F50	10GbE	N/A	FLASH Enabled	2.1.11

**10. Remove the DOS disc or USB stick.**

**11. Reboot the system to Linux to activate PXE boot.**

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