

For Intel® PRO/10GbE SR Server Adapters,  
and Intel® PRO/10GbE Software Release 2.0

<<New LBN Part Number>>

**Latest Information & Drivers: see <http://support.intel.com>**

## Online User's Guide

The full user's guide is located on the Intel media (enclosed Intel CD), or online at <http://support.intel.com>. Click the User's Guide button from Autorun program, or open INDEX.HTM at the root of the CD.

## New Features

- Support for Intel PRO/10GbE SR Server Adapter
- FreeBSD driver support
- Infineon G6005 (850nm) transceiver optics
- Bracket has Network Icon for certification compliance and identifies LAN connection as 10GBASE-SR

Drivers are available on the Intel CD and the Intel support website (<http://support.intel.com>).

## Software Compatibility

Intel PRO/10GbE SR Server Adapters support these operating systems:

- Microsoft Windows\* 2000 (Server, Advanced Server, Datacenter Server), with latest service pack installed
- Microsoft Windows Server 2003 Enterprise Server (32- and 64-bit versions), and Datacenter Server (32-bit version), with latest service pack installed
- Linux\* (v2.4 kernel or higher), 32- and 64-bit versions
- FreeBSD (v4.8 kernel or higher), 32- and 64-bit versions

## Cabling & Connections

- Use *only* multi-mode fiber cabling with 62.5 or 50 micron core diameter, and LC connectors.
- Connect to a 10GbE SR compatible switch or link partner.

## Performance Enhancement

Although Intel PRO/10GbE SR Server Adapters will operate in a non-optimized system with a PCI-X interface, better performance can be obtained when the system is optimized for 10GbE. You can find several tips to improve performance in the `readme.txt` file at the root of the Intel CD, or at <http://support.intel.com>. Linux-specific performance enhancements can be found in the README, found in the `\PROXGB\LINUX\` directory.

## Installing Advanced Features for Windows\*

Click **Install Advanced Features** on the Intel media Autorun screen (or run SETUP.EXE in the root directory). A wizard guides you through the installation of these advanced features:

- Intel® PROSet (Graphical User Interface for adapter and ANS configuration)
- Intel® PRO Network Adapters WMI Provider (for more information, see the README.TXT file)
- Intel® LAN Adapters SNMP Agent

## Team Setup Requirement

Before adding an adapter to a team, make sure each adapter's advanced settings are configured the same as other adapters in the team. To check team member configuration, view each team members' settings in the Advanced tab in Intel PROSet. Team settings (or capabilities) available from PROSet's Advanced tab are determined by the lowest-common-denominator for each capability. When you make team changes, the team settings are updated when you click Apply in Intel® PROSet and the team is reloaded.

If, through PROSet, you add an adapter to a team, and that adapter has fewer teaming capabilities than the team it is joining, PROSet warns that there is a compatibility mismatch. PROSet then adds the adapter to the team and the new team settings are set to the lowest-common-denominator. These settings take effect when you click Apply.

## Known Issues

### Do not use "Change/Repair" option in Add-Remove Programs to repair PROSet

If you suspect that your system has a corrupted or missing files used by ANS, use the Autorun program on the Intel CD, and select the "Install Software" option. This gives you a "Repair" option, which will restore PROSet and ANS components to working order. NOTE: If you use the Change/Repair options from the Add-Remove Programs control panel applet, it will only perform a partial repair. ANS features may not work, and the PROSet network component tree will report that no adapters are present.

### Incorrect Sender-Responder packet count while in "Sender" mode

When running sender-responder test in Microsoft Windows 2000 and Windows Server 2003, the counter will incorrectly show twice the number of packets sent than what is actually sent. This only happens if it is running in Sender mode. If running in Responder mode, number of packets is recorded properly.

### Incorrectly reported link speed in Windows 2000

In Windows 2000, the link speed of the adapter may be incorrectly reported as 1.4Gbps. As of Windows 2000 Service Pack 4, this problem still exists. Windows Server 2003 will indicate the correct link speed.

### Small Packet Transmit Failure in Windows 2000

In Windows 2000, the adapter may fail to transmit small packets in some situations. Typically, this only occurs when attempting many small packets simultaneously. This issue has been fixed in Windows 2000 Service Pack 4. Windows 2003 Server is not affected.

Run "netstat -e" from a command line to determine if this problem is occurring. If the "Send Errors" counter is steadily increasing, it is likely an indication of this issue.

### Compatibility notes for Multi Vendor Teaming

In Intel test labs, attempting to hot-add a non-Intel adapter to a team was found to cause system instability. If you hot-add a non-Intel adapter to a team, make sure you restart the computer or reload the team.

## Linux- and FreeBSD-based Operating Systems

For Linux and FreeBSD drivers, updates are posted to the Network Adapters section at <http://support.intel.com>. Support is through email only.

For Linux: [linux.nics@intel.com](mailto:linux.nics@intel.com).

For FreeBSD: [freebsdnic@mailbox.intel.com](mailto:freebsdnic@mailbox.intel.com).

## Intel® Boot Agent™

For documentation on the Intel Boot Agent, you can view the user's guide and the BOOTAGNT.TXT file on the Intel media in the \BOOTAGNT directory. The adapter can have the flash memory enabled by using IBUTIL.EXE. Flash upgrades and instructions are available at <http://support.intel.com>.

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