



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

Online User Guide

The full user 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

- Infineon G6005 (850nm) and G6104 (1310nm) Transceiver Optics.
- Adapter bracket has network icon for certification compliance and identifies LAN connection as 10GBASE-SR or 10GBASE-LR.

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

Software Compatibility

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

- Microsoft* Windows* 2000 (Server, Advanced Server, with latest service packs 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-bit version.

Cabling & Connections

- For PRO10GbE **SR** Server Adapters (850 nm laser): Use *only* multi-mode cabling with 62.5 or 50µm core diameter, and LC connectors. Connect to a 10GbE **SR** compatible switch or link partner.
- For PRO10GbE **LR** Server Adapters (1310nm laser): Use *only* single-mode fiber cabling with 9.0µm core diameter, and LC connectors. Connect to a 10GbE **LR** compatible switch or link partner.

Improving Performance

Although Intel PRO/10GbE SR and LR Server Adapters will operate in a non-optimized system with 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 user guide, or at <http://support.intel.com>. Linux-specific performance enhancements can be found in README, found in the \PROXGB\LINUX directory.

Team Setup Requirements

Special conditions must be met in order to create a team that includes Intel PRO/10GbE adapters. See the Teaming section of the Online User Guide for complete information.

Before adding an adapter to a team, make sure each adapter's advanced settings are configured the same as other adapters in the team. Team settings (or capabilities) are determined by the lowest-common-denominator for each capability.

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

Wake on LAN

Wake on LAN is not supported with Intel PRO/10GbE Adapters.

Known Issues

Incorrect 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 Server 2003 is not affected.

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

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: linuxnics@intel.com

For FreeBSD: 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** on the Intel media in the **\BOOTAGNT** directory. The adapter can have the flash memory enabled by using **IBAUTIL.EXE**. Flash upgrades and instructions are available at <http://support.intel.com>.

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