Sun PCIe 2.0 Gigabit Ethernet Networking Cards

Security Guide

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Sun PCIe 2.0 Gigabit Ethernet Networking Cards

This document provides the following security guidelines for the Sun PCIe 2.0 Gigabit Ethernet Networking Cards from Oracle.

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Product Overview

This security guidelines in this document apply to all Sun PCIe 2.0 Gigabit Ethernet Networking Cards listed the following table:

Adapter	Number of Ports	Form Factor	Transfer Rate	Network Interconnect
Sun Dual Port GbE PCIe 2.0 LPA, MMF	2	Low profile	1 GbE	Multimode fiber
Sun Quad Port GbE PCIe 2.0 LPA, UTP	4	Low profile	1 GbE	Unshielded twisted-pair
Sun Quad Port GbE PCIe 2.0 EM, MMF	4	ExpressModule	1 GbE	Multimode fiber
Sun Quad Port GbE PCIe 2.0 EM, UTP	4	ExpressModule	1 GbE	Unshielded twisted-pair (Shielded twisted-pair for NEBS Compliance)
Sun Dual Port 10GBase-T Adapter*	2	Low profile	10 GbE	Unshielded twisted-pair

Adapter	Number of Ports	Form Factor	Transfer Rate	Network Interconnect
Sun Dual Port 10GBase-T ExpressModule†	2	ExpressModule	10 GbE	Unshielded twisted-pair (Shielded twisted-pair for NEBS Compliance)
Sun Dual Port 10GbE SFP+ PCIe 2.0 LPA	2	Low profile	10 GbE	Fiber long reach and short reach
Sun Dual Port 10GbE SFP+ PCIe 2.0 EM	2	ExpressModule	10 GbE	Fiber long reach and short reach
Sun Dual 10GbE Fiber Expansion Module	2	Expansion module	10 GbE	Fiber long reach and short reach

* Formerly called the Sun Dual Port 10 GbE PCIe 2.0 Low Profile Adapter, Base-T

† Formerly called the Sun Dual Port 10 GbE PCIe 2.0 ExpressModule, Base-T

Security Principles

The principles described in this section are fundamental to using any Ethernet network adapters securely.

Software Updates

These cards ship with all of the firmware installed. Installation is not required in the field.

Software updates for Oracle Solaris drivers are available through Oracle Solaris patches and updates. Software updates for drivers for all other operating systems are available from Intel.com. If firmware updates are ever needed, contact Oracle support to arrange for support or check my.oracle.suport for the latest updates and procedures for this particular product.

Refer to the product notes provided with your adapter for late-breaking news or information about firmware update requirements or other security information.

User Authentication

All operating systems in general and Oracle Solaris in particular require you to log in with root credentials to administer the cards and to upgrade the drivers or firmware.

Security Considerations for Developers

All software and firmware running on the networking cards are provided by Oracle. Customers cannot develop their own software to run on these cards.