



# Replacement Smart Card Reader for Sun Blade™ Systems

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# Replacement Smart Card Reader for Sun Blade Systems

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This document applies to all Sun Blade™ 100, 150, 1000, and 2000 systems and covers the following topics:

- “Replacement Smart Card Reader Characteristics” on page 1
- “Verifying the Need for Replacement” on page 2
- “Installing the Smart Card Reader” on page 3

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## Replacement Smart Card Reader Characteristics

The new smart card reader has these features:

- Bi-color LED indicator
- Double-sided insertion

**TABLE 1** Smart Card Reader LED Indicator Status

LED State	Condition
Green solid	Smart card is properly inserted.
Green flashing	Data read/write.
Amber solid	Smart card is not inserted correctly or no communication with smart card.

The smart card can be inserted into the reader face-up (gold pads up) or face-down.

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**Note** – Service personnel should inform the customer of these features.

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## Verifying the Need for Replacement

Before you replace the smart card reader, make sure that it needs to be replaced. You can verify this by checking the release date of the Solaris™ operating environment and the installed patches.

### 1. Check your Solaris 8 release date:

```
% cat /etc/release |grep So
Solaris 8 2/02 s28s_u7wos_08a SPARC
```

In this example, the release date is 2/02.

### 2. If the release date is before 7/01 (July 2001), download and update to the Solaris 8 7/01 release or a newer one, according to the instructions available at:

<http://www.sun.com/software/solaris/>

### 3. Check your installed patches:

```
% showrev -p|nawk '{print$2}'|sort
```

This command lists all installed patches in ascending numeric order.

### 4. Verify that the following or newer Solaris 8 patches are installed:

- 108909-12 — Smart card administration GUI
- 109354-14 — CDE dtsession fixes
- 109695-03 — Opencard properties file
- 109887-13 — Smart card core fixes
- 110457-05 — Internal card reader fixes

These or newer versions (higher dash (-) number) of the patches are necessary for proper operation of any smart card reader.

### 5. Download and install all missing patches from SunSolve<sup>SM</sup> at:

<http://www.sunsolve.sun.com>

If the smart card reader functions properly after installing the software, you do not need to replace the smart card reader.

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# Installing the Smart Card Reader

If you have verified the correct Solaris operating environment and patches, and the smart card reader still does not function correctly, install the new reader.

Instructions for installing the smart card reader are available in Chapter 7 of the appropriate Sun Blade service manual.

**TABLE 2** Sun Blade System Service Manuals

System	Part Number	URL
Sun Blade 100	806-3416	<a href="http://docs.sun.com/source/806-3416-10/">http://docs.sun.com/source/806-3416-10/</a>
Sun Blade 150	816-4379	<a href="http://docs.sun.com/source/816-4379-10/">http://docs.sun.com/source/816-4379-10/</a>
Sun Blade 1000/ Sun Blade 2000	816-3217	<a href="http://docs.sun.com/source/816-3217-10/">http://docs.sun.com/source/816-3217-10/</a>

Alternatively, Sun Blade system documentation is available from:

<http://www.sun.com/documentation>

Click on the following links: Additional Hardware Documentation → Desktop & Workstation → Sun Blade Workstations. Then click on the link for your system.

