

SUN RAY 2FS VIRTUAL DISPLAY CLIENT

KEY FEATURES AND BENEFITS

REDUCE MAINTENANCE,
UPGRADE, AND
OPERATIONAL COSTS

FEATURES

- Built-in fiber optic port
- Native dual-head capabilities
- Ultralow power consumption
- Displays a Windows, Linux, or Solaris OS desktop
- Mobile capabilities for picking up right where you left off as you “hot desk”—from office to conference room to home
- Data security and centralization capabilities for easily backing up data, making it redundant, and securing it against theft and attacks

BENEFITS

- Save money by managing thousands of desktops with just a few system administrators.
- Virtually eliminate costs associated with client virus attacks.
- Protect intellectual property by eliminating insecure PC storage or removable media.
- Save time by upgrading applications on thousands of desktops in hours or days—not weeks or months.

Oracle’s Sun Ray virtual display clients provide customers with an interoperable desktop computing solution that reduces the maintenance, upgrade, and operational costs associated with most desktop environments. The ultrasecure Sun Ray 2FS virtual display client has unique industry leading features such as a built-in fiber optic port, native dual-head capabilities and ultralow power consumption. These clients were designed for secure desktop environments and electronic design automation (EDA).



The Sun Ray 2FS virtual display client includes an integrated smart card reader.

Sun Ray Overview

Zero-administration Sun Ray virtual display clients enable access to applications on virtually any platform—the Solaris Operating System, Java technology, Linux, UNIX, Microsoft Windows, AS/400, and mainframes. Sun Ray clients differ from complex PCs and thin clients with embedded operating systems. Sun Ray clients have no local operating system (such as Windows XP Embedded or Windows CE) to manage and administer.

Sun Ray architecture consists of two types of components: Sun Ray virtual display clients and Sun Ray Software.

Sun Ray virtual display clients are simple, low-cost, low-power devices that require no desktop administration. Unlike complex Microsoft Windows or Embedded Linux-based thin clients and PCs, Sun Ray clients do not need to be upgraded when

new applications are introduced or more computing power is required. Users can access their sessions from any Sun Ray client on a local area network (LAN) or wide area network (WAN). With a smart card, a user simply inserts it into any available Sun Ray client and instantaneously accesses an existing session.

Sun Ray Software provides user authentication and encryption between the server and the client, as well as user session management. It not only enhances security, but also helps reduce the complexity and administration of the IT environment. Sun Ray Software provides automatic load balancing, optimizing performance by distributing sessions across the servers in the group. Load balancing takes into account each server's load and capacity (number and speed of its CPUs), so that larger or less heavily loaded servers bear more of the load. Sun Ray Software enables Sun Ray clients to be connected to a LAN or a WAN.

Sun Ray 2FS

The Sun Ray 2FS is the only virtual display client from a major vendor that includes fiber to the desktop, native dual-head (similar to Xinerama) and an integrated smart card reader as standard features. This client also boasts the highest resolution in the industry at 1920 x 1200 at 24-bit color for one monitor or 3840 x 1200 at 24-bit color for two monitors.

Users can connect two monitors to one Sun Ray 2FS client without the need for a PCI extension card. The fiber port enables customers to connect to the network via a fiber optic interface, which enhances the security of the network connection. The Sun Ray 2FS is also one of the lowest power consuming clients on the market with a meager 7.86 watts of typical power consumption—less than half of most thin clients and less than 10 percent of a PC. The Sun Ray 2FS virtual display client ships without a monitor and is compatible with Oracle’s monitors as well as standard Video Graphics Array (VGA) or Digital Video Interface (DVI) monitors, enabling organizations to leverage IT investments.

Sun Ray 2FS Virtual Display Client Specifications

Hardware	
Graphics	Peripheral Interface
<ul style="list-style-type: none"> • 24-bit graphics • Up to 1920 x 1200 resolution @ 72 Hz for one monitor or 3840 x 1200 @ 72 Hz for two monitors 	<ul style="list-style-type: none"> • Three USB 2.0 ports supporting USB 1.1 speeds, powered • One serial port
Networking	Input Devices
<ul style="list-style-type: none"> • 100Base-FX fiber optic port • 10/100Base-T port 	<ul style="list-style-type: none"> • Universal Serial Bus (USB) keyboard • USB mouse • Smart card reader
CPU	Audio
Alchemy	<ul style="list-style-type: none"> • CD-quality audio in/out • Microphone • Headphone jacks • Stereo line level in



Monitor	
<ul style="list-style-type: none"> • Two industry standard Digital Video Interface (DVI-I) connectors that support third-party and Oracle monitors, included HD15 adapter • Standard VGA compatible monitors • One Sun Ray 2FS supports two monitors that act as a single, integrated display (similar to Xinerama) 	
Smart Card	Adjustments
ISO-7816-1 (smart card reader)	N/A
Dimensions	
Unit Without the Stand	Stand Dimensions
<ul style="list-style-type: none"> • Width: 28 mm (1.09 in.) • Depth: 215 mm (8.46 in.) • Height: 215 mm (8.46 in.) • Weight: 0.56 kg (1.24 lb.) 	<ul style="list-style-type: none"> • Width: 95 mm (3.76 in.) • Depth: 215 mm (8.46 in.) • Height: 13 mm (0.51 in.) • Weight: 0.63 kg (1.39 lb.)
Regulations	
Safety	EMC
<ul style="list-style-type: none"> • UL 60950/CSA C22.2-60950 • EN 60950 • IEC825 • U.S. FDA (laser safety) 	<ul style="list-style-type: none"> • CISPR22 • EN55022 Class B; FCC CFR Title 47, Part 15, Subpart B, Class B • EN55024:1998 • IEC6100-3-2 • IEC6100-3-3 (CISPR24:1997)
Ergonomics	
<ul style="list-style-type: none"> • GS Mark • RoHS-6 Compliant 	
Environment	
Operating	Nonoperating
<ul style="list-style-type: none"> • 0°C to 35°C (32°F to 95°F) • 10% to 93% RH • 3 km (10 K ft.) 	<ul style="list-style-type: none"> • – 20°C to 60°C (– 4°F to 140°F) • 10% to 93% RH • 12 km (39 K ft.)
Power	
<ul style="list-style-type: none"> • External power supply input: Universal 100 V to 240 V AC autoranging, 50 Hz–60 Hz, 0.5 A • System power consumption: 30 W AC maximum, 7.86 W typical @ 12 VDC 	
Acoustic	
<3.5 B, <28 dBA (operator), ISO 9296	

Warranty

Visit oracle.com/sun/warranty for Oracle's global warranty support information on Sun products.

Services

Visit oracle.com/sun/services for information on Oracle's service program offerings for Sun products.

Contact Us

For more information about Oracle's Sun Ray 2FS virtual display client, please visit oracle.com/sun or call +1.800.786.0404 to speak to an Oracle representative.



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