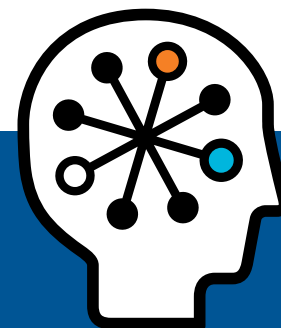




HP ProLiant Onboard Administrator, powered by Integrated Lights-Out 2 (iLO)

Data sheet



ProLiant Onboard Administrator simplifies server setup, health monitoring, power and thermal control, and remote administration of ProLiant ML, DL, and BL servers to help you lower operational costs, improve IT productivity, and increase system availability.

In today's environment, where IT organizations have limited IT resources, onsite server management can be a challenge. Executing tasks like server set up, health monitoring, power and thermal control, and the like can not only be tedious but also time consuming and expensive. But what if you could execute these tasks from any location using a Web browser?

HP ProLiant Onboard Administrator, powered by the Integrated Lights-Out (iLO) 2 management processor, ships with every ProLiant server. Out of the box it helps simplify server setup, provides access to server health information, and optimizes server power and thermal control, while enabling basic remote administration functions. Unlock all the capabilities of the ProLiant Onboard Administrator with HP iLO Advanced and take remote administration to the next level. The application of an HP iLO Advanced license key gives you instant access to virtual KVM console, multi-user collaboration, console record and replay, and 24-hour power measurement and single server Dynamic Power Capping.

Key features and benefits

Simplified server setup

ProLiant Onboard Administrator makes it possible to configure server boot order, network configuration, RAID settings, and other server parameters in a

consistent and unattended fashion. Use these control surfaces as part of your own internally developed deployment scripts or when using the rapid deployment capabilities of Insight Control suite. When used in combination with Insight Control suite, you can expect to decrease deployment times by as much as 65 percent in comparison to manual deployment methods.

Embedded server health

Most management systems require OS agents to troubleshoot hardware problems. With ProLiant Onboard Administrator embedded health, system administrators gain deep insight into the component status when the operating system is offline or distressed. With ProLiant G6 servers, HP introduces support for viewing configuration and status of CPU, fans, and power supplies. HP will also introduce the ability to view configuration and status of memory, array controllers and drives in summer of 2009.

Dynamic Power Capping and thermal control

Today more than ever, IT organizations are concerned with the cost of powering and cooling their x86 servers. The power and thermal controls embedded into the ProLiant Onboard Administrator allow you to reduce server power consumption by regulating processor clock speed and by providing an optional high-efficiency mode for power supplies. This combination of power regulation and power supply high efficiency mode can help your organization save as much as 18% in power consumption. IT and facilities teams also need to make sure that they are making efficient use of existing power and cooling capacity. With Dynamic Power Capping capabilities in the ProLiant Onboard Administrator—IT and facilities staff can set an upper limit on power consumption and reclaim trapped power and cooling capacity created by overly conservative power budgeting policies. If your company uses face plate to budget server power needs, you can as much as triple the capacity of your data center.

iLO remote administration

iLO Advanced allows system administrators to quickly address problems in the data center down the hall or in remote offices around the world. The Integrated Remote Console gives your IT staff the ability to interact directly with the server OS or pre-OS environment without leaving their desks.

This means that hundreds or thousands of dollars are saved which otherwise would have been spent on traveling to distant locations.

In addition, IT administrators can take advantage of the multi-user console and video record and playback to collaborate with IT staff across multiple locations more effectively. This advanced functionality is available by purchasing an iLO Advanced license for ProLiant ML/DL servers and an iLO Advanced for BladeSystem license for ProLiant BL servers.

Product offerings

ProLiant Onboard Administrator

ProLiant Onboard Administrator ships standard with ProLiant ML/DL 300, 500, and 700 Series servers or BL servers with the iLO 2 management processor. Out of the box, ProLiant Onboard Administrator simplifies server setup with embedded configuration tools, provides access to embedded health information, displays current power consumption and temperature readings, and enables access to remote administration functions such as virtual power and unit locator LEDs. ProLiant Onboard Administrator access is also protected by Secure Sockets Layer and Secure Shell encryption.

HP iLO Advanced and iLO Advanced for BladeSystem

HP iLO Advanced and iLO Advanced for BladeSystem unlocks the full set of ProLiant Onboard Administrator remote administration functionality for ProLiant ML, DL, and BL servers. iLO Advanced and iLO Advanced for BladeSystem license keys activate the full Virtual KVM remote console, multi-user collaboration, console record and replay, virtual media and virtual folders, and enhanced security and power management functionality. By using iLO Advanced and iLO Advanced for BladeSystem, IT managers can perform most system administration tasks without physically visiting their ProLiant ML and DL servers.

Insight Control suites

HP iLO Advanced, along with other Insight software management tools, are also offered as part of HP Insight Control suite. HP Insight Control suite provides a convenient way to purchase and license HP iLO Advanced and install HP Systems Insight Manager (SIM), and the other HP Insight software management tools necessary to build a best-run server infrastructure.

Better together

HP ProLiant Onboard Administrator, HP iLO Advanced, and HP iLO Advanced for BladeSystem are integrated with HP infrastructure management software products and other leading management applications. HP SIM intelligently discovers ProLiant Onboard Administrator devices and associates it with their host servers for one click access to setup, embedded health, power and thermal control, and remote administration functions.

HP Services

To fully capitalize on the capabilities of your server remote management solution, you need a service partner who thoroughly understands your IT environment. HP Services has unique insight and provides a wide range of support services designed to help you get the most from your technology:

- **HP Software Technical Support:** HP iLO Advanced and iLO Advanced for BladeSystem include one year of 24x7 HP Software Technical Support and SW Update Service (TS&U). With TS&U, customers gain rapid access to the HP call center and backline support, as well as proactive notification and access to firmware updates.
- **HP Remote Support Pack:** This powerful electronic support solution, which easily plugs into HP SIM, streamlines proactive problem-resolution with automated monitoring and fault diagnosis. Many issues that previously required the active involvement of your IT staff and/or onsite support calls can now be resolved remotely with this service.

HP ProLiant Onboard Administrator, powered by iLO 2

	HP iLO Advanced Pack	HP iLO Advanced for BladeSystem	HP ProLiant OA (HP iLO 2 Standard)	HP ProLiant OA (HP iLO 2 Standard Blade Edition)
Supported servers	All HP ProLiant ML/DL 300/500/700 Series	All iLO 2 supported ProLiant BL server blades	All iLO 2 supported HP ProLiant ML/DL 300/500/700 Series	iLO 2 supported HP ProLiant BL server blades
Remote control	•	•		
Virtual KVM	Full text and graphic modes (pre-OS and OS)	Full text and graphic modes (pre-OS and OS)	Text pre-OS mode	Full text and graphic modes (pre-OS and OS)
Graphical remote console (Virtual KVM)	•	•	Text pre-OS mode	
Virtual power	•	•	•	•
Automatic video: Last boot	•	•		
Automatic video: Last fault	•	•		
On demand record playback	•	•		
Virtual media	•	•		Browser only
Virtual folders	•	•		
Power measurement/capping	•	•		
Agentless system health	•	•	•	•
Global team collaboration	•	•		•
MS Terminal Services pass-through	•	•		•
Dedicated NIC	•	•	•	•
Shared network port	•	•	•	•
Text console	•	•		
Remote serial console	•	•	•	•
Access security	•	•		
Directory services authentication	•	•		
Two-factor authentication	•	•		
Locally stored accounts	•	•	•	•
Browser	•	•	•	•
Command line	•	•	•	•
XML/PERL scripting	•	•	•	•
WS management scripting	•	•	•	•
ActiveX Control client (integrated remote console)	•	•	•	•
Java™ applet client	•	•	•	•
Security protocols	•	•		
Secure Socket Layer	•	•	•	•
Secure Shell	•	•	•	•
RC4 (Virtual KVM)	•	•	•	•
Network connectivity	•	•		

Architecture	32-bit PCI-based health and remote management ASIC
Processor	32-bit RISC processor core running at 66 MHz
Upgradeability	Optional firmware upgradeable through Flash ROM
Video support	Utilizes the host server's embedded video chip Supports VGA/SVGA, 640 x 480 (256 to 16.7M colors), 800 x 600 (256 to 16.7M colors), 1024 x 768 (256 to 65K colors), 1280 x 1024 (256 colors)
Network interfaces	One dedicated Ethernet network connection (10/100 Mb/s), One shared network port (24 Mb/s sideband)
Memory	2 MB Flash ROM, 8 MB SDRAM
Operating system support	Microsoft® Windows® Server 2003 and Windows Server 2003 R2, and Windows Server 2003 for Extended Systems Standard Edition, Enterprise Edition, Web Edition, SBS Edition, Red Hat Enterprise Linux 3 (x86), (AMD64/EM64T), Red Hat Enterprise Linux 4.0, SUSE Linux Enterprise Server 9, SUSE Linux Enterprise Server 10, Novell NetWare 6.5, Microsoft Windows Server 2008 Standard Edition (32-bit and 64-bit), and Microsoft Windows Server 2008 Enterprise Edition (32-bit and 64-bit)
Client system support	Microsoft 2000 Professional, Microsoft Windows XP Professional Edition, Red Hat Enterprise Desktop 4.00, Novell Desktop 9
Client browser support	Microsoft Internet Explorer 6.0 SP1 or later, Firefox 2.0 (on supported Windows and Linux client systems) Mozilla 1.75 (for supported Linux client systems)
Command line support	Telnet, Secure Shell, and serial port access
Security	Secure Socket Layer, Secure Shell version 2 (password and certificate) .RC4
Directory services support	Active Directory V1.0 (Windows 2000, 2003), Novell eDirectory V8.6.2, V8.7 (Novell NetWare 5.X, 6.X, Red Hat 7.1, Windows 2000, Windows Server 2003)
Management protocols	DMTF System Management Architecture for Server Hardware (SMASH), Server Management Command Line Protocol (SM CLP), DMTF WS-Management, Intelligent Platform Management Interface (IPMI) v2.0 host interface, Simple Network Management Protocol
Driver support	Health Driver (iLO Advanced Server Management Controller Driver), iLO Management Interface Driver
Supported servers	For a full list of supported servers, please visit www.hp.com/servers/ilo/supportedservers

Ordering information

HP iLO Advanced Pack	License Part Number
Single Server License	512485-B21
Flexible-Quantity License	512486-B21
Tracking License	512487-B21
HP iLO Advanced for BladeSystem	
Single Server License	512488-B21
Flexible-Quantity License	512490-B21
8-Blade License	512489-B21
Tracking License	512491-B21

Financial services

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage, and ultimately retire your HP solutions. For more information on these services, please contact your HP representative, or visit www.hp.com/go/hpfinancialservices

For more information

For more information on HP iLO 2, remote management products contact any of our worldwide sales offices, or visit www.hp.com/go/iLO

For ordering information, please see QuickSpecs www.hp.com/go/QuickSpecs

Technology for better business outcomes

To learn more, visit www.hp.com/go/iLO

© Copyright 2006–2009 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Java is a U.S. trademark of Sun Microsystems, Inc. Linux is a U.S. registered trademark of Linus Torvalds. Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation.

5983-0591EN Rev. 7, March 2009

