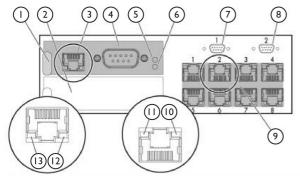
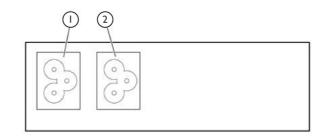
Overview

The SL Advanced Power Manager is a rack level solution for the HP ProLiant SL6500, SL4500, and HP Moonshot1500 System, which enables server level power on and off, server metering, SL Rack Dynamic Power Capping, and Asset Management capabilities. In addition, the SL APM will automatically discover SL hardware components which are connected into the SL APM solution.



Front View:

- 1. SL-APM controller slot 1
- 2. SL-APM controller slot 2
- 3. 10/100 network interface
- 4. Serial console
- 5. Power (green) LED
- 6. Fault (red) LED
- 7. PDM1 for HP Intelligent Modular PDU Extension Bar
- 8. PDM2 for HP Intelligent Modular PDU Extension Bar
- 9. SL-APM Distribution Module ports
- 10. Network interface 100mb activity (amber) LED, indicates that the link is in 100Base-T mode and blinks when transmitting or receiving data. When the link is 10mb, the LED does not illuminate.
- 11. Network interface connection (green) LED, indicates that the Ethernet link is established
- 12. Distribution Module port connection (green) LED, indicates that SL-APM Distribution Module is connected to the port
- 13. Distribution Module port activity (green) LED, indicates that there is activity between the SL-APM and the SL-APM Distribution Module



Back View:

- 1. AC power input 1
- 2. AC power input 2



Standard Features

Warranty

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners. Hardware diagnostic support and repair is available for one year from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty.

NOTE: Server Warranty includes 1 year Parts, 1 year Labor, 1-year on-site support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at:

http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.



Optional Features

Factory Express Portfolio HP Factory Express offers configuration, customization, integration and deployment services for HP servers and Storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSAxxxx, VA7xxx, EVA, XP, rackable tape libraries and configurable network switches.

For more information on Factory Express services for your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express.



Service and Support

Service and Support HP Technology Services

HP Technology Services offers you consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, boost availability and avoid downtime. **Protect your business beyond warranty with HP Care Pack Services** When you buy HP Options, it's also a good time to think about what level of service you may need. HP Care Pack services provide total care and support expertise with committed response choices designed to meet your IT and business need.

Recommended HP Care Pack Services for optimal satisfaction with your HP product

Recommended Services HP Foundation Care Next Business Day Service

HP Foundation Care Next Business Day connects you to HP during business hours for assistance on resolving issues - features next business day hardware onsite response and software call back within two hours after opening your case. Make HP your first call for hardware or software questions; Collaborative Support is included in all Foundation Care Services for this product and provides troubleshooting assistance on software such as Microsoft Server, Red Hat Linux, VMware and more. Three years' coverage recommended with HP Care Pack Service.

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

Related HP Care Pack Services to enhance your HP product experience

Related Services	HP Proactive Care Next Business Day Service This services combines next-business-day onsite hardware reactive support with proactive services and enhanced access to call specialists to manage and prevent problems.			
	HP Proactive Select Service Provides a flexible way to purchase HP best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN.pdf			
Insight Remote Support	Delivers secure remote monitoring and support for HP servers and storage, 24x7 at no additional cost. Available as part of HP Warranty, Care Pack and Service Contract offers.			
Parts and materials	HP will provide HP-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements. Supplies and consumable parts will not be provided as part of this service; standard warranty terms and conditions apply. Parts and components that have exceeded their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual or the technical product data sheet will not be provided, repaired or replaced as part of this service.			



Service and Support

CoverageFor ProLiant servers and storage systems, this service covers HP-branded hardware options qualified for
the server, purchased at the same time or afterward, internal to the enclosure, as well as external
monitors up to 22" and tower UPS products; these items will be covered at the same service level and for
the same coverage period as the server unless the maximum supported lifetime and/or the maximum
usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms
and conditions apply.The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives

replaced by HP due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by HP as consumable parts and/or that have exceeded maximum supported lifetime and/or the maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.

For more information

n To learn more on services for HP ESSN Options, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: http://www.hp.com/services/proliant or www.hp.com/services/bladesystem



Configuration Information - Factory Integrated Models

NOTE: This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, HP recommends the use of an HP approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

NOTE: FIO indicates that this option is only available as a factory installable option.

Step 1: Base Configuration (choose one from each list unless otherwise noted)

HP SL Advanced Power	HP SL Advanced Power Manager Kit 5380			
Manager	NOTE: Each SL-APM can connect to 8 SL-APMD			
	HP SL Advanced Power Manager Distribution Module Kit	620002-B21		
	NOTE: Each SL-APMD can connect to 10 s6500 chassis, 10 SL454x chassis, or 10 HP			
	Moonshot 1500 chassis.			



Technical Specifications

System Unit Chassis Dimensions 1.7" x 5.5" x 9" (4.3 x 14 x 22.9cm) (H x W x D) 1.7" x 5.5" x 9" (4.3 x 14 x 22.9cm)	1.7" x 5.5" x 9" (4.3 x 14 x 22.9cm)		
Weight3.25 lbs(approximate)			
Input Requirements Rated Line Voltage 100 to 240 VAC			
(per power supply) Rated Input Current 1.0A at 115VAC 1.0A at 230VAC			
Rated Input Frequency 50 to 60 Hz			
Rated Input Power 12W (at 100 VAC), 12W (at 200 VAC)			
Power Specifications To review typical system power ratings use the HP Power available via the online tool located at URL: www.hp.con efficient			
653.10W (at 100 VAC), 653.08W (at 200 VAC)			
System inletOperating50° to 95° F (10° to 35° C) at altitude derating of 1.8°F per per every 305 m) above sea of 10,000 ft (3050 m), no dir sunlight. Maximum rate of c (10°C/hr). The upper limit m type and number of options System performance may b with a fan fault or above 86	er every 1000 ft (1.0°C level to a maximum rect sustained change is 18°F/hr ay be limited by the installed. e reduced if operating		
Non-operating -22° to 140° F (-30° to 60° C Maximum rate of change is 1			
Relative HumidityOperating10% to 90% relative humidi(non-condensing)maximum wet bulb temperationcondensing.condensing.			
Non-operating 5% to 95% relative humidity (38.7°C) maximum wet bulb condensing.			
AltitudeOperating10,000 ft (3050 m). This val the type and number of opti Maximum allowable altitude ft/min (457 m/min).	ions installed.		
Non-operating 30,000 ft (9144 m). Maximu change rate is 1500 ft/min (
Acoustic NoiseListed are the declared A-Weighted sound power levels average bystander position A-Weighted sound pressure the product is operating in a 23°C ambient environment. measured in accordance with ISO 7779 (ECMA 74) and de with ISO 9296 (ECMA 109).	levels (LpAm) when Noise emissions were		
Idle			
LWAd N/A			
LpAm N/A			



Technical Specifications

	Emissions Classification (EMC)	Operating LWAd LpAm FCC Rating Normative Standards	N/A N/A Class A CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1	
		NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.		
Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide		
		treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.		

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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.

For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.

