



Secure, Remote Server Management Using Service Processors

The MergePoint® service processor (SP) managers support multiple industry management standards and bring simplicity to the data center by streamlining and consolidating the management of servers with SP technologies. This is achieved by leveraging SP technologies from Dell, HP, IBM, Sun, Fujitsu and the Intelligent Platform Management Interface (IPMI, versions 1.5 and 2.0).

The MergePoint appliances provide secure Serial over LAN (SoL) console access, power control and server hardware monitoring and support DirectCommand which enables transparent, secure access to the SP's native interface, along with IPMI provisioning and SP auto discovery. When used in conjunction with DSView® 3 centralized management software, the MergePoint appliance consolidates server access and control into one secure, out-of-band platform for simpler management of disparate and dispersed IT equipment in data centers and remote offices.

The appliances can be accessed directly from a feature-rich Web user interface or a standard command line interface that leverages the Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP); Web Services for Management (WS-MAN) that allows a common method for systems to remotely access devices and to exchange management information; and Common Information Model object manager (CIMOM) that uses an information model with standardized management information to abstract, organize and communicate details about the managed device consistently between systems. SMASH, WS-MAN and CIMOM are standards defined by the Distributed Management Task Force (DMTF). These provide a single command line interface to manage servers from multiple manufacturers, simplifying management and streamlining interoperability while providing scripting and automation capabilities.

The MergePoint appliances not only make it easier to leverage SP features but also enhance SP-added functionality. For example, the SoL feature complements the continuous data logging capabilities, resulting in additional security and auditing. The appliances allow enterprise-class authentication, authorization and auditing (AAA) security and encryption and extend this functionality to all servers.

Also, simultaneous power control of multiple servers boosts the already existing power control capabilities of SPs, including graceful shutdown support for IPMI. These features allow the user to completely unleash the power of SP technologies.

The MergePoint appliances also ease the deployment and management of these technologies. With easy-to-use IPMI provisioning capabilities and an auto-discovery mechanism for server management technologies within the network, the MergePoint appliances are ideal for enterprise data centers as well as for high performance computing (HPC) and other clustering environments.

MergePoint Applications

- Logical consolidation of service processors (5300)
- Physical consolidation of service processors (5324/5340)
- IPMI provisioning and management
- Integration of service processors into management framework
- Remote power control for servers without power distribution units (PDUs)

Benefits

- Single console for multiple service processor types
- Server access for deployment, management and troubleshooting
- Ability to control multiple servers simultaneously
- Simplified management via standards-based interfaces (e.g., SMASH CLP)
- Logging and auditing of service processor activity
- Compatible with next generation network standards – IPV6
- Enhanced service processor support: Dell® (M1000e Blade Chassis Controller, iDRAC for blades), HP®-c7000 blade servers

Part Number	Description
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Ordering Details

MergePoint 5300 appliance

MGP5300-XXX	IPMI/DRAC/iLO appliance, includes initial 64 target licenses (max. 256 target licenses per appliance)
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Software for 5300

MGPUG-64	Additional 64 target licenses
MGPUG-128	Additional 128 target licenses

MergePoint 5340 appliances

MGP5324SAC-XXX	MergePoint 5324 SAC, 24-port, single AC power
MGP5340SAC-XXX	MergePoint 5340 SAC, 40-port, single AC power
MGP5324DAC-XXX	MergePoint 5324 DAC, 24-port, dual AC power
MGP5340DAC-XXX	MergePoint 5340 DAC, 40-port, dual AC power
MGP5324DDC	MergePoint 5324 DDC, 24-port, dual DC power
MGP5340DDC	MergePoint 5340 DDC, 40-port, dual DC power

Software for 5324/5340

MGPUG-20	MergePoint 5324/5340, 20-target add-on license
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Specifications

5300

Mechanical

Size: 1.7 in. (4.3 cm)H, 16.8 in. (42.7 cm)W, 14 in. (35.6 cm)D

Weight: 13 lbs. (5.9 kg)

Environmental

Operating Temperature: 32° to 95°F (0° to 35°C)

Storage Temperature: -31° to 158°F (-35° to 70°C)

Humidity: 10 to 90% non-condensing

Power

Power: 260 W universal

Interfaces

2x 1 gigabit Ethernet ports, 1x RS-232 serial console port

Approved Agency

FCC Class B, EN 60950/IEC 60950, UL Listed (USA), CUL Listed (Canada), TUV Certified (Germany), CE Marking (Europe)

5324/5340

Mechanical

Size: 1.75 in. (4.45 cm)H, 17 in. (43.18 cm)W, 12 in. (30 cm)D

Weight: 9 lbs. (4 kg)

Environmental

Operating Temperature: 50° to 122°F (10° to 50°C)

Storage Temperature: -40° to 185°F (-35° to 85°C)

Humidity: 5 to 90% non-condensing

Power

Power: Universal AC, single or dual 100–240 VAC, 50/60 Hz, 1.4 A max. dual DC, 36–75 VDC, max. input current 5 A

Interfaces

24/40 x 10/100BT RJ-45 server Ethernet interfaces on RJ-45, 1 RS-232 serial console on RJ-45, 1 RS-232 serial port on RJ-45 for power manager or external modem, 1 10/100/1000BT primary user Ethernet on RJ-45, 1 10/100BT secondary user Ethernet on RJ-45 (with failover support for primary interface)

Approved Agency

FCC Class B, EN 60950/IEC 60950, UL Listed (USA), CUL Listed (Canada), TUV Certified (Germany), CE Marking (Europe)

Features

Service Processor Support

- IPMI 1.5 (incl. nonstandardSoL support), IPMI 2.0
- HP integrated Lights Out (iLO, iLO2) HP IPMI, HP Blade System
- Dell Remote Access Cards (DRAC III, 4, 5), DELL BladeCenter DRAC MC, DELL 10G, M1000e Blade Chassis Controller, Blade Chassis Management Controller/iDRAC for blades/iDRAC6 for blades
- FSC iRMC, iRMC S2
- IBM® RSA (RSA II), IBM BladeCenter
- Sun® ALOM, Sun ILOM, Sun eLOM

Server Management

- Console access via SoL
- Console data logging (local, NFS, Syslog)
- Power on/off/cycle/status support
- Graceful shutdown support (IPMI only)
- Group execution of functions
- System event logs (SEL)
- Hardware environmental sensors
- Alert management
- Platform event traps (PET)
- Integrated support for Microsoft® Remote Desktop Protocol (RDP) and Virtual Network Computing

Service Processor Management

- IPMI provisioning
- Service processor auto discovery

User Interface

- Embedded Web interface
- Standards-based command line interface (SMASH CLP)
- Single, consolidated Web interface with DSView 3 software integration
- SSH device management command options

