HP IP Console Switch G2 and Server Console Switch G2 with VM

The HP IP Console Switch G2 with VM and Server Console Switch G2 with VM integrated keyboard, video, and mouse (KVM) capabilities and serial access into a single management console for all your servers, network devices, and technology infrastructure

HP IP Console Switch G2 with VM

The new HP IP Console Switch G2 with Virtual Media (VM) helps simplify data center management.

The IP Console Switch G2 comes with Common Access Card (CAC) support, which is a key component in managing data centers that require two-factor authentication. CAC, backed by AES encryption, helps protect your business-critical data. What's more, coupled with the IP Viewer software, it allows remote access to multiple servers running various operating systems. The VM capability allows a removable drive, optical or mass storage, or an ISO image to be remotely mapped to an attached server in the data center or a remote office for software installations and upgrades. An intuitive local console user interface provides menus for configuration, virtual media, display, and upgrades from the local console.

The IP Console Switch allows server administrators to manage up to 1,024 servers across tiers from a single console when the switch is tiered with additional HP Server Console Switches. Application installations and upgrades can be pushed through to any server on any of the tiers from a single console—or remotely, when using virtual media interface adapters.

Benefit from the switch's built-in redundancy, backed by a dual power supply and dual NIC support, empowering your data center with superior levels of uptime. Moreover, the IP Console Switch G2 has been designed to work seamlessly with the entire line of HP servers and storage devices.

Key features and benefits

- **Full remote KVM functionality:** Get KVM control of servers and serially attached devices at near local performance.
- **Remote virtual media:** Software and firmware can be loaded and updated on the LAN or WAN when used with Virtual Media Interface Adapters.
- **iLO compatibility:** The IP Viewer software helps switch between remote KVM and Integrated Lights Out (iLO) sessions.
- **Local Console User Interface:** An intuitive interface provides all configuration, settings, and access. The same interface is used remotely as the On-board Web Interface (OBWI).

- **Programmable scanning:** An evaluation of system performance can be done by sequentially scanning any computer in the system. Programmable scanning allows you to determine which computers to include, as well as the duration of the connection.
- **Configuration NVRAM:** Non-volatile random access memory (NVRAM) stores the switch's configuration information until it is changed—even if the unit loses power.
- **Password protection:** For protection against unauthorized users, the switch box provides a local password option, as well as individual user authentication and access rights for remote users.
- **Switch firmware update:** The application code of the switch can be quickly and easily updated through the flash ROM. Updates can be accomplished remotely over the LAN using the OBWI.
- **Space-efficient:** The switch offers multiple space-saving 0U installation methods:
  - **Side mount**—Rails are provided for mounting the unit to the side of rack cabinets with side-mounting capability.
  - **Rear rack mount**—The switch can be mounted behind an HP 1U rack-mounted keyboard or a TFT7600 rack-mounted keyboard and monitor using the slide rails provided with the switch.
- **Multiple connectivity options:** The switch supports a variety of server connections through interface adapters. These options will work even without virtual media.
  - PS/2
  - USB mouse and keyboard
  - VT100 serial console support
  - HP BladeSystem support through the front diagnostics connector

HP Server Console Switch G2 with VM

The HP Server Console Switch G2 integrates KVM and serial devices into a single management console for all your servers, network devices, and infrastructure.

Requiring no software to be installed on the target servers, the HP Server Console Switch provides a true KVM solution for local system management. With tiering support, you can now manage up to 1,024 servers from a single KVM console.

Using CAT5 unshielded twisted pair (UTP) cables between the switch and server facilitates cable routing and allows for field termination of custom cable lengths. Integration with the HP IP Console Switch enables the local KVM solution to be integrated smoothly and easily into a KVM/Internet Protocol (IP) remote management solution.

Key features and benefits

- **Two local ports:** The use of two local ports increases access by allowing two simultaneous sessions—one through the tiered console and another through the local console.
- **Scalable KVM solution:** The switch helps you increase efficiency and make better use of space throughout your heterogeneous data center—and enables easy scalability.
- **Choice of models:** The HP Server Console Switch has two models—the 0×2×16 and the 0×2×32.
- **Tiering or cascading support:** The server console switch allows multiple KVM switches to be seamlessly connected and allows up to 1,024 servers to be managed from a single KVM switch.
- **Flexible support:** All HP Server Console Switch G2 with VM models have local USB support for keyboard and mouse, as well as support for virtual media and smart card/CAC functionality.
- **Seamless integration:** Seamless integration with existing HP KVM switches, HP Integrated Lights-Out, Remote Insight Lights-Out Edition (RILOE), and RILOE II protects the investments you have already made, while simplifying day-to-day management of your server environment.
- **Local Console User Interface:** An intuitive interface provides all configuration, settings, and access—and the same interface is used remotely as the On-board Web Interface.
- **Scalability:** Integration with the HP IP Console Switch G2 enables greater flexibility and scalability for growth.

What's new?

Performance

- Improved video compression provides superior remote video performance.
- Increased distance between console switches and interface adapters provides more flexibility in configuration.

Management

- Intuitive and customizable client software allows you to handle all KVM functions remotely on the LAN or WAN. It also lets you manage any HP IP Console Switch G2 with VM, and HP Server Console Switch G2 with VM through remote OBWI.
- USB connectivity provides easier cable management and flexibility in choice of consoles.
- VM and local USB pass-through provide an easy method of updating and installing firmware, applications, and operating systems either locally or remotely. SNMP functionality on the IP Console Switches quickly alerts administrators about potential problems.

Technical specifications

	HP IP Console Switch G2 with VM	HP Server Console Switch G2 with VM
Number of server ports	8, 16, or 32	16 or 32
Maximum supported servers	1024	1,024
LAN/WAN access	Yes (for management and KVM)	Yes (for management only)
Number of simultaneous users	Up to 6	2
Number of remote IP users	Up to 4	0 (1 if tiered from an HP IP Console Switch)
CAT5 cable	Yes	Yes
Tiering support	Yes	Yes
PS/2 server support	Yes	Yes
USB server support	Yes	Yes
PS/2 console support	Yes	Yes
Serial console support	Yes	Yes
BladeSystem BL server support	Yes	Yes
SNMP—event traps can be sent to Insight Manager	Yes	Yes
Support for multiple languages	Yes	Yes
Support for different server brands	Yes	Yes
Support for variety of operating systems	Yes	Yes
1U and 0U mounting	Yes	Yes

Security

- The Common Access Card (CAC) is a smart card used as an identification device for authorized personnel. It works as a general identification card, and is also used for authentication.
- Keyboard, mouse, video, and virtual media can be encrypted using one of four different methods: AES, 128-bit SSL, 3DES, or DES.
- Passwords can be set for local and remote access, as well as the management port.
- Local security sets access rights and permissions for users and administrators.
- Microsoft® Active Directory® authentication through LDAP (Lightweight Directory Access Protocol) makes it even easier to manage user access rights, which improves security.

Options

- The new PS/2 interface adapter provides full-speed virtual media data transfer speed and smart card/CAC support.
- The new USB 2.0 interface adapter provides full-speed virtual media data transfer speed and smart card/CAC support.
- The new Serial G2 interface adapter provides true serial capability, allowing use of Telnet or SSH to establish a serial session.
- KVM functions work with all existing HP CAT5-based PS/2, USB, and serial interface adapters

Warranty

Three-year limited warranty, including hardware diagnostic support and pre-failure warranty (coverage of hard drives, memory, and processors). The warranty is fully supported by HP Services and a worldwide network of resellers and service providers. In addition, 90-day getting started software telephone support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services.

NOTE: Limited warranty is three-year parts only.

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, please contact your HP sales representative or visit **hp.com/go/hpfinancialservices**.

For more information

For more information on the HP Server Console Switch G2 with VM, visit **hp.com/go/KVM** or **hp.com/go/rackandpower**.

HP Services

When technology works, business works.

To streamline installation and enhance ongoing support of your rack solution, HP recommends the following service offerings:

Installation and startup services

HP Services offers complete installation support—including global rollout capabilities—to get your rack solution up and running rapidly, with minimal business disruption.

Hardware support

Now you can cover all the options installed in your rack with a single convenient service package, and increase uptime and productivity with rapid-response support solutions.

HP Care Pack services for rack-mounted servers and storage systems provide support for all HP-branded hardware options qualified for inclusion in your server or storage devices at the time of purchase or afterward. In addition, 22-inch diagonal and smaller external monitors, tower units, uninterrupted power supply (UPS) options not exceeding 12 kVA, KVM switches, consoles, power distribution units (PDUs), and any additional HP-qualified rack options installed within the same rack are covered at the same service level and for the same period as the server. Coverage of UPS batteries is not included.

For more information, visit **www.hp.com/services/proliant**.

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