HP networks for today's mobile workforce

Secure, standards-based, unified wired and wireless network solutions designed for small business

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Small business challenges

The competitive landscape for small businesses has changed dramatically over the past decade. Your customer can be located anywhere in the world, and they expect to be able to do business with you 24x7, using any device. Your competitors may have expanded from other small businesses in your local geography to those based on the other side of the globe.

Your IT infrastructure needs to be able to respond to these challenges and enable you to stay one step ahead of the competition.

Mobility continues to change the way organizations—and the world— conduct business. New devices and platforms can make it easier than ever to communicate with employees and customers. As a result, businesses are presented with more opportunities to provide innovative productivity enhancements, products, and services.

Many small businesses have not developed a wireless infrastructure. As they strive to thrive in a global economy, these businesses need to be able to accommodate the bandwidth demands of wireless and wired devices that can enable their employees to conduct business anywhere, anytime.

They need to be able to handle personal devices and disparate services—like Wi-Fi, text messages, smartphones, apps, tablets, and cloud computing—that make it easy for customers to do business with them, and that enable employees and vendors to stay connected away from the workplace.

Simply put, mobility has introduced both opportunities and challenges that a small business needs to plan for to reap the benefits.

HP innovations and superior service at your side

HP is one of the largest IT companies in the world with a complete portfolio of products that span networking, servers, storage, printers, notebooks, desktop PCs, and more. HP Networking offers business-grade networking solutions tailored for your small business needs. You can get up and running fast with networking solutions for unified communications, mobility, network management, security and branch offices, all supporting wired and wireless LAN and WAN infrastructures.

HP products and services are supported by self-help tools, available 24x7 and backed by HP's legendary warranty. HP Networking solutions are designed to support your smartphone-toting, rich media-consuming, always-on customer base and workforce.

HP Networking solutions designed for small businesses

HP Networking offers a full suite of networking solutions to meet the needs and budgets of every small business. Our solutions are quick to install and easy to use so your employees can share resources, communicate, and collaborate without complexity.

HP Networking products for small businesses are specifically designed with your needs in mind. All products are:

- **Quick and easy to use:** Out-of-the-box, plug-and-play simplicity that makes setup, operation, and management happen in a snap.
- **Efficient:** Intuitive, Web-based, or zero management network operation saves you time and eco-friendly design for peace of mind.
- **Reliable:** The products are tested for worry-free operation to help keep the business online and productive.
- **Open:** We make sure our solutions are standards based so you can easily add them to your network and manage them, worry free.
- **Comprehensive:** HP Networking offers an end-to-end suite of networking, server and storage solutions, services, and financing to meet every small business' need.

- **Secure:** Throughout, HP Networking incorporates advanced secure technology, such as Wi-Fi Protected Access II (WPA2) in wireless products and 802.1X for switches.
- **Future ready:** Whatever you might need in the future, HP Networking provides a clear upgrade path for your growing business.
- **Intelligent:** Our products feature the functionality and performance designed to meet small business, employee, and customer demands.
- **Cost-effective:** Our products offer low cost of ownership while comprehensive warranties help you save money year after year—up to 66 percent lower cost of networking with HP Networking solutions.[1]

HP Networking solutions deliver a secure, reliable architecture designed to support the demands of mobility, virtualization, high-definition video, rich media collaboration tools, and cloud computing. Your business can operate with more agility and with greater productivity to provide superior customer service and maintain your competitive edge.

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[1] Source: "ROI of a complete networking portfolio: delivering value from the network edge to the core," IDC white paper, September 2010.

Small business wireless network

Scenario description

A small business with an IT infrastructure deployed at a single location. The organization has high-performance wireless and wired LAN connections for servers, storage, printers, client PCs, and notebooks. The wireless access point provides flexible connectivity for mobile workers. Secure guest access can be implemented on a separate virtual LAN (VLAN). The HP M200 802.11n Access Point provides near wire-speed connectivity for IEEE 802.11n devices—legacy IEEE 802.11a/b/g wireless clients are supported as well. Switch and access point are managed through an intuitive, easy-to-use Web interface from any PC within the network. It can be used as well by service partners for remote diagnosis and troubleshooting.
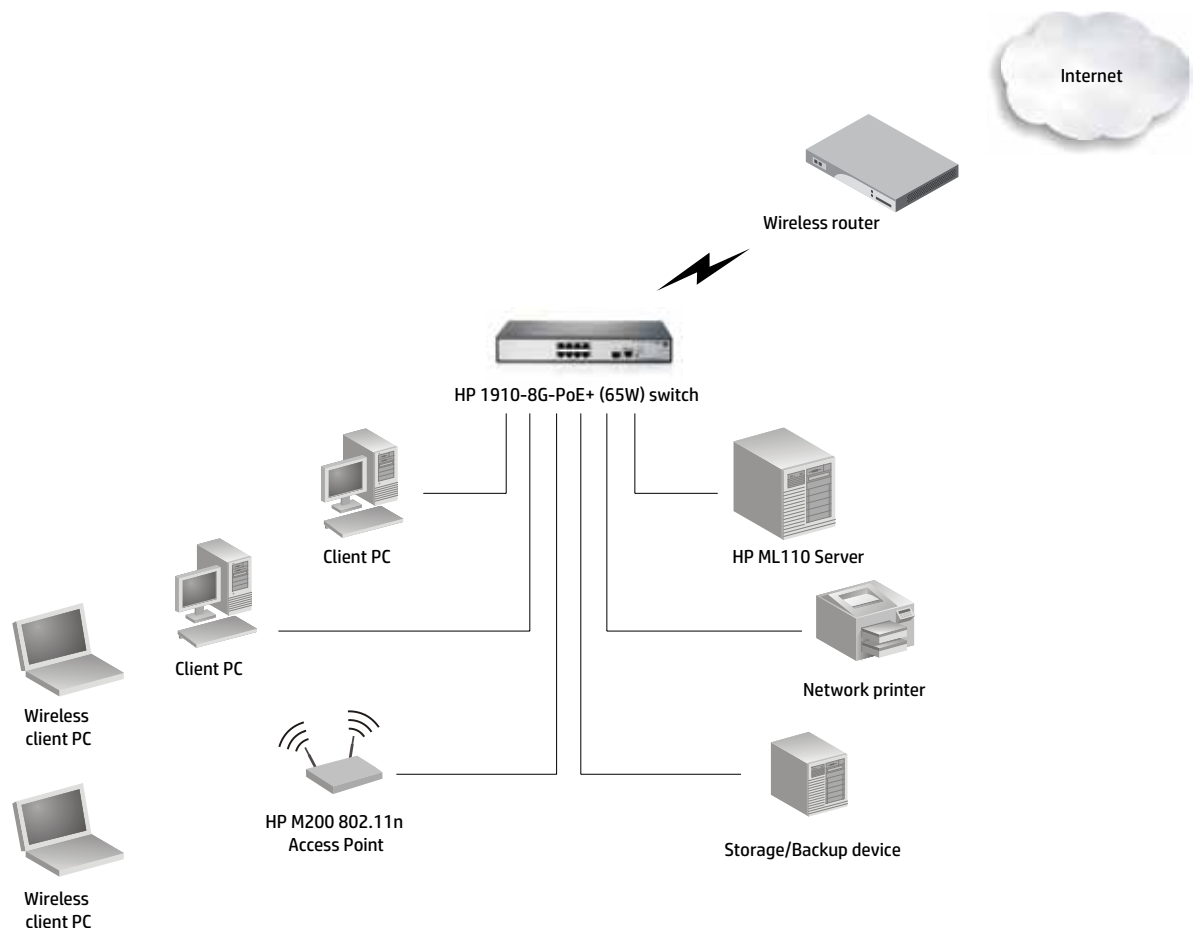
Solution benefits

Simplified deployment:

- Intuitive Web interface for simple device configuration and management
- Plug-and-play installation of wired/wireless connectivity
- Industry standards-based technology for seamless interoperability

Increased business agility and competitiveness:

- High-speed connectivity for business-critical applications
- Flexibility for customers to interact with employees through mobile, high-speed wireless connectivity
- Reliable and secure network infrastructure to mitigate business disruption

Note: Featured HP 1910-8G-PoE+ (65W) Switch (JG349A) has a fanless design that enables silent operation required for office environments.

Smart-managed small business network

Cost control:

- Innovative technology designed and prized for small business needs
- Lower total cost of ownership (TCO) achieved through lower power consumption due to the advanced energy-saving features available on the switches
- Reliable, easy-to-maintain infrastructure backed by lifetime warranty on the Ethernet switch components and wireless access point

Featured HPN products in the solution in the figure "Smart-managed small business network":

- JG349A: HP 1910-8G-PoE+ (65W) Switch
- J9467A: HP M200 802.11n Access Point (U.S. version)
- J9468A: HP M200 802.11n Access Point (WW version)

Note: Customer outside of U.S. must order the WW version of HP M200 Access Point.

HP 1910 Switch Series

Fixed-configuration Gigabit Ethernet lite Layer 3 switches designed for small businesses looking for key enhanced features in an easy-to-administer solution. The series has eight models: 8-, 16-, 24-, and 48-port 10/100/1000 non Power over Ethernet (non-PoE) models; and two 8-port and two 24-port 10/100/1000 PoE models. All series switches have additional true Gigabit small form factor ports for fiber connectivity. HP 1910 models support rack mounting or desktop operation and use variable-speed fans for quiet operation. The HP 1910 switches operate at full wirespeed, IPv6, supporting quality of service (QoS) traffic prioritization and security features such as 802.1X network login, access control lists, and denial-of-service prevention. Customizable features include VLANs and link aggregation trunking as well as advanced features such as Layer 3 static routing and Spanning Tree Protocols (STP, RSTP, and MSTP). The HP switch series comes with a lifetime warranty covering unit, fans, and power supplies.

Key features	Benefits
Supports basic routing—set up to 32 static routes and 8 VLAN interfaces	Use local routing to tie multiple workgroups together, whether on different physical segments or on different VLANs; local routing on a switch can boost workgroup performance and offload central router tasks
Supports Access Control Lists (ACLs) and 802.1X	Enhanced security; use 802.1X to enforce network access controls; ACL rules can granularly define who has access to what areas of your network
Extra ports for small form-factor pluggable fiber connectivity; true ports, not combo ports	Greater port capacity and switch performance than switches using combo ports
Smart Web-based management with advanced features	Simple-to-use Web interface allows you to customize network operation
Choose from among four PoE models Two 24-port models, one 170 W of PoE and the other 365 W of PoE Two 8-port models, one 65 W of PoE and the other 180 W of PoE	It is most cost-effective to buy the model that most matches the PoE power level you require; PoE enables powering of client devices like IP phones, thin clients, wireless access points, and others, without additional wiring
Lifetime Warranty; covers power supply and fans Next-business-day advanced hardware replacement	High-quality products giving peace of mind about the network installation

Wireless for your small business

The HP M200-802.11n Access Point Series provides wireless connectivity for your expanding network. Take full advantage of the next-generation IEEE 802.11n standard with the M200 access point's dual-band capability while simultaneously supporting IEEE 802.11a or 802.11b/g devices. The new Web user interface makes the M200 access point easy to set up, yet retains key functionality to keep your sensitive data secure.

Key features include:
- IEEE 802.11a/b/g/n access points
- Single radio, dual band (2.4 GHz and 5 GHz)
- Independently managed
- Easy-to-use Web user interface
- Powered by 802.3af PoE or included power supply
- Lifetime warranty

Ordering information for HP 1910 series:

PoE models (required to power access point):
- JG349A: HP 1910-8G-PoE+ (65W) Switch[2]
- JG350A: HP 1910-8G-PoE+ (180W) Switch
- JE007A: HP 1910-24G-PoE+ (365W) Switch
- JE008A: HP 1910-24G-PoE+ (170W) Switch

Non-PoE Models:
- JG348A: HP 1910-8G Switch
- JE005A: HP 1910-16G Switch
- JE006A: HP 1910-24G Switch
- JE009A: HP 1910-48G Switch

Ordering information for HP M200 Access Points
- J9467A: HP M200 802.11n Access Point (U.S.)
- J9468A: HP M200 802.11n Access Point (WW)[2]

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[2] Featured product suited for starter network

HP Networking warranty at your service

HP Networking products set the standards for quality and reliability, and come with warranties you would expect from us. From comprehensive lifetime warranties (for as long as you own the product) through competitive 1-year warranties, HP Networking product warranties have been developed to complement a broad portfolio of HP services to meet your needs effectively. Most of the above-featured products come with limited lifetime warranty, which includes next-business-day advance replacement (available in most countries) and includes coverage for fans and power supplies for the entire warranty period.

HP Networking products have legendary HP quality, and our warranty is one way of demonstrating it. The HP Hardware Limited Warranty Statement containing the terms and conditions for the warranty on HP Networking products can be viewed at **hp.com/networking/warranty**. The warranty period for our various products is listed there.

Our warranty, though, is just the beginning of what we include with our products. To help make it easier for you to implement, use, and maintain our products, we also include with our products many support features such as self-help tools that are available 24x7 on the Web, telephone support, email support and electronic case submission, and software releases. For details on support features, and to contact HP Networking technical support, visit **hp.com/networking/support**.

HP Network Support Services

We offer a comprehensive portfolio of Network Support Services to help you manage your network efficiently, mitigate risks and downtime, and increase your business value of technology. You can extend the lifetime warranty coverage of your HP Networking products, increase the performance, and availability of your network infrastructure with our simplified and standardized portfolio of HP Care Pack Services.

Get support levels suited for your environment—we provide reactive hardware support that provides advanced levels of repair and replacement response times and 24x7 software support. Besides, we offer integrated and proactive mission-critical service options that address issues before they become a problem. With services like installation and startup, and assessment service included in the portfolio, we take care of your transactional or per-event service requirements, helping you free up staff to focus on more strategic activities.

With HP Network Support Services, we provide a single point of accountability, professional expertise, and proven customer support experience consistently across the globe.

For more information on other Network Services offered by HP, visit **hp.com/go/networks**.

For more information on support services, visit **hp.com/networking/services**.

To look up the support level you require, visit **hp.com/go/cpc**.

HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help you acquire, manage, and ultimately retire you HP solutions. For more information, visit **hp.com/go/hpfinancialservices**.

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For more information about our secure networking solutions for small businesses, visit
hp.com/us/en/solutions/index.aspx?tab=tab_smb

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