



Mobile internet access with EVDO and HSDPA - overview

[» Return to original page](#)

How to guides



Mobile internet access with EVDO and HSDPA

Mobile internet access with EVDO and HSDPA

- » **Overview**
- » What is EVDO and HSDPA
- » Benefits of wireless broadband
- » Explore components
- » Identify types of wireless broadband products
- » Product information

Overview

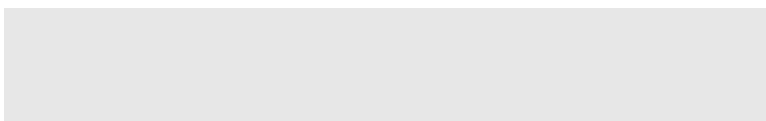
Imagine being able to check and send email from the back of a taxi, order business supplies while you wait for your lunch to arrive, and print important memos to your office printer while standing in line for your morning latte. With wireless broadband service and a notebook computer, you get relatively high-speed, secure internet access anywhere you get cell phone coverage.

There are two competing wireless broadband standards: EVDO (Evolution Data Optimized) and HSDPA (High-Speed Downlink Packet Access). This guide explores the basic differences between the two standards, focuses on the benefits to your business, and examines the security of mobile internet access. You'll also find out how to select a wireless broadband carrier and determine if mobile internet access services are available in your area.

The sections of this guide include:

- » **What is EVDO and HSDPA:** learn about the EVDO networking standard and how it differs from HSDPA and Wi-Fi
- » **Benefits of wireless broadband:** identify ways that EVDO can improve your business practices and create efficiency
- » **Explore components:** identify the components of an integrated wireless WAN (WWAN) system
- » **Identify types of products with mobile internet access:** determine which types of products come equipped with EVDO or HSDPA wireless technology and those you can modify for the technologies
- » **Product information:** browse HP's products with integrated wireless WAN technology
- » Next: What is EVDO and HSDPA

Email this page





Mobile internet access with EVDO and HSDPA - what is it

[» Return to original page](#)

How to guides



Mobile internet access with EVDO and HSDPA

Mobile internet access with EVDO and HSDPA

- » Overview
- » **What is EVDO and HSDPA**
- » Benefits of wireless broadband
- » Explore components
- » Identify types of wireless broadband products
- » Product information

What is EVDO and HSDPA

The EVDO standard was developed in 1999 by Qualcomm as the next step in the evolution of CDMA (Code-Division Multiple Access) technology, attempting to hit a target wireless data transfer rate of 2 Mbps (megabits per second). It's been widely adopted overseas, and is now being implemented in the United States by a few major communications companies. EVDO is a wireless broadband technology that ordinarily offers data transfer speeds between 300 Kbps (kilobits per second) and 512 Kbps. You can get up to a 2-Mbps (megabits per second) transfer rate in areas with a strong signal and low interference.

Note: Even with an optimal connection, EVDO hasn't caught up to DSL (digital subscriber line) yet, which is approximately 2.4 Mbps (megabits per second). However, EVDO rates are ordinarily 10 times faster than traditional dial-up modem connections.

What is HSDPA?

HSDPA is based on the GSM (Global System for Mobile Communications) standard that is used throughout the world for cellular communications. HSDPA wireless broadband technology provides a higher quality signal than EVDO but is not as widely deployed. EVDO connection software is also slightly easier to configure.

Note: Both wireless broadband standards carry data over the same cell towers used for voice communications, on its own radio frequency to avoid crossover.

You're probably quite familiar with Wi-Fi (wireless fidelity) technology and are wondering how it differs from EVDO or HSDPA. The main differences are:

- EVDO and HSDPA don't require an internet hotspot.
- Standard Wi-Fi has a much shorter range, generally 250 to 300 feet. EVDO and HSDPA -- wireless broadband connections -- have the same range as a cell phone signal.

Determine coverage

Of the relatively few major players in the wireless broadband game, Verizon uses EVDO technology and Cingular uses HSDPA technology. Each company has a fairly wide coverage area and similar rate plans, so the decision comes down to which provider covers your area with mobile internet access:

- **Verizon:** Offers Wireless BroadbandAccess in over 180 U.S. metropolitan areas.
- **Cingular:** Offers BroadbandConnect service in most major U.S. metropolitan areas and over 170 countries.

Note: As of this writing, both providers offer unlimited data plans ranging in cost from \$60 to \$80 per month.

» Next: Benefits of wireless broadband

Rate this information

Was this information useful? Your feedback is important to us.

Not at all(1) — Neutral(3) — Definitely(5)

Comments (optional):

» [Return to original page](#)

[Privacy statement](#)

[Using this site means you accept its terms](#)

[Feedback to SMB webmaster](#)

© 2006 Hewlett-Packard Development Company, L.P.



Mobile internet access with EVDO and HSDPA - benefits

[» Return to original page](#)

How to guides



Mobile internet access with EVDO and HSDPA

Mobile internet access with EVDO and HSDPA

- » Overview
- » What is EVDO and HSDPA
- » **Benefits of wireless broadband**
- » Explore components
- » Identify types of wireless broadband products
- » Product information

Benefits of wireless broadband

Wireless broadband access might be the hot new thing, but will it benefit your business? If you or your employees work remotely, EVDO or HSDPA technology could make a big difference in how you do business. You can:

- Maximize productivity by accessing information and applications remotely at a much higher data transfer rate than with a dial-up modem.
- Increase security of email, contacts, and other sensitive information.
- Stay in touch and share data anywhere without the need for a wireless hotspot.
- Reduce the number of help desk calls from remote employees who are unable to make a connection to the internet using conventional methods.
- Enable a single, secure connection for all wireless communications.

No matter what industry you're in, from construction to consulting, your business can benefit from having the information you need, when and where you need it. Here are some real-world examples:

- With EVDO or HSDPA technology, your sales executives can access vital information from the customer's site without the hassles of trying to connect to their network.
- Your construction foreman can order the building materials his crew needs from the job site and then send someone to pick up the order at the store, saving significant time on the project.

The practical applications of EVDO and HSDPA wireless broadband are as varied as the businesses that implement them.

Get secure transmissions

When deciding whether to implement any mobile internet access solution, consider the security issues involved in accessing sensitive business data remotely. A wireless broadband connection is more secure than a Wi-Fi hotspot, which is essentially a wide-open public access point. For this reason, many businesses forbid access to corporate VPN (virtual private network) and other resources via public Wi-Fi hotspots.

Alternatively, wireless broadband has built-in 128-bit encryption, so the risk of data interception, theft, and modification is significantly reduced. This is the same level of encryption used throughout the internet, and for governmental, banking, and military applications. Your data couldn't be much more secure without being completely inaccessible.

» Next: Explore components

Rate this information

Was this information useful? Your feedback is important to us.

Not at all(1) — Neutral(3) — Definitely(5)

Comments (optional):

» [Return to original page](#)

[Privacy statement](#)

[Using this site means you accept its terms](#)

[Feedback to SMB webmaster](#)

© 2006 Hewlett-Packard Development Company, L.P.



Mobile internet access with EVDO and HSDPA - explore

[» Return to original page](#)

How to guides



Mobile internet access with EVDO and HSDPA

Explore components

What do you need to put wireless broadband technology to work for your business? This section discusses the essential hardware and software you need to access the internet and print documents remotely.

The computer and network connection

The first thing you need is a notebook with a WWAN (wireless wide area network) NIC (network interface card). This card is similar to the wireless network card you probably already have, but it's made to connect to wireless broadband networks. The card also contains the encryption routines that secure your data.

If you're in the market for a new notebook, you can go one step further and get one with embedded, or integrated, WWAN technology. Having the wireless broadband WWAN technology integrated into the notebook offers a great convenience -- it's always there, so there's no chance of misplacing a small external card. Integrated WWAN technology is also safer than carrying your notebook PC with the external WWAN card attached, which is prone to damage in transit.

Note: You'll find a sampling of HP products with integrated WWAN technology in the "Production information" section of this guide.

Ensure secure connections

Although wireless broadband connections are encrypted, you need to ensure that your internal network is secure, yet accessible. Securing and configuring your network is outside the scope of this guide; however, at a minimum, you should set up a firewall that restricts outside access to unauthorized users. Configure the firewall to allow access to employees via remote wireless broadband connections.

The printer

Mobile internet access with EVDO and HSDPA

- » Overview
- » What is EVDO and HSDPA
- » Benefits of wireless broadband
- » **Explore components**
- » Identify types of wireless broadband products
- » Product information

One of the big conveniences of EVDO and HSDPA wireless broadband access is secure remote printing, which enables you to create documents and print them to your office printer from your notebook PC. This convenience also requires some configuration and the right equipment. You need a networked printer or print server configured to accept print jobs from your notebook PC.

The software

Wireless broadband-enabled computers use a manager tool to activate wireless broadband service and make the actual connection to the internet. For example, on an HP notebook, launch the VZAccess Manager software from the start menu and follow the prompts to activate and get connected.

If the software came installed on your computer, you're set to go. Otherwise, you can download the software from the [Hewlett Packard Technical Support](#) website.

Tip: To use a mobile printer, you should download and install the HP Mobile Print Driver for Windows. The driver is available on the HP website.

» Next: Identify types of wireless broadband products

Rate this information

Was this information useful? Your feedback is important to us.

Not at all(1) — Neutral(3) — Definitely(5)

Comments (optional):

» [Return to original page](#)

[Privacy statement](#) [Using this site means you accept its terms](#) [Feedback to SMB webmaster](#)

© 2006 Hewlett-Packard Development Company, L.P.



Mobile internet access with EVDO and HSDPA - identify

[» Return to original page](#)

How to guides



Mobile internet access with EVDO and HSDPA

Mobile internet access with EVDO and HSDPA

- » Overview
- » What is EVDO and HSDPA
- » Benefits of wireless broadband
- » Explore components
- » **Identify types of wireless broadband products**
- » Product information

Identify types of wireless broadband products

There are quite a few products on the market that come with built-in wireless broadband capabilities. This section of the guide covers the types of products that can help you achieve your business goals, easily and efficiently. Whether you want to browse your email from the commuter train, check your stock quotes, or print remotely, a variety of products are available now to make it happen.

Select a computer

Let's start off with the most crucial piece of the puzzle -- the mobile computer. HP offers three styles of mobile computers: business notebooks, tablet PCs, and handhelds.

Business notebook computers

These laptops are the workhorses of mobile computing. They give you all the computing power you're used to in a desktop computer, only smaller and more compact. You can select from notebooks designed to be as light as possible for frequent travelers, mid-range models that balance weight with features, and mobile powerhouses designed to replace your desktop. Each category has several models available, so you're sure to find the right combination of features for your business.

Note: Several HP notebooks including the nc6320 and the nc6400 now come with integrated WWAN technology built in.

Tablet PCs

Tablet PCs are ideal for students, writers, or anyone who does a lot of their work longhand. They combine the convenience of a notebook computer with the simplicity of old-fashioned paper and pen. They also come with special software that makes it easy to convert your handwritten notes to text files, automatically.

Note: A Tablet PC requires an external WWAN card.

Handheld PCs

When you don't need the computing power of a full PC, and you want something you can toss in your briefcase and go, a handheld device is for you. Using an HP iPAQ, for example, you can check your email, look something up online, or even take digital photos and send them to your friends. HP iPAQs are also designed to integrate with the productivity software on your desktop PC, so checking your calendar or adding to your task list has never been easier.

Note: Cingular provides wireless broadband service -- in this case, HSDPA -- for HP iPAQs.

Select printing options

Remote printing might not be something you thought you needed, but once you have it, you'll wonder how you ever did business without it.

Mobile printers

On a business trip, you might find yourself on the go all day with a pile of paperwork to do when you get back to your hotel. Make it easier on yourself with a mobile printer. Connect the printer in your hotel room with Wi-Fi access, and then print to it from your notebook computer anytime, anywhere throughout the day. Your printouts will be waiting for you when you get back to the hotel room, ready to sign and move on.

Wireless print servers

The wireless print server is one step better than a mobile printer. It's a full-featured office printer that's connected wirelessly to the internet. It runs its own mini-web server, so you can access all of its advanced features from your wireless broadband-enabled computer. Print, collate, and staple the handouts for your morning meeting while you ride the train into the office. They'll be there waiting for you, freeing you up to enjoy your morning cup of coffee and check your email before the meeting.

Now that you're up to speed on EVDO and HSDPA wireless broadband standards, and what they can do to streamline your business and make you more productive on the road -- all you have to do is decide how you want to implement the technology in your business. You need to pick a wireless provider, and then decide between a notebook, tablet, or handheld PC. If the possibilities of remote printing seem like finding that mythical 25th hour in the day, look into a mobile printer or a wireless print server.

Tip: For help selecting products with integrated EVDO technology, visit the [HP Mobility solutions evaluation center - wireless services](#) web page.

» Next: Product information

Rate this information



Mobile internet access with EVDO and HSDPA - products

[» Return to original page](#)

How to guides



Mobile internet access with EVDO and HSDPA

Mobile internet access with EVDO and HSDPA

- » Overview
- » What is EVDO and HSDPA
- » Benefits of wireless broadband
- » Explore components
- » Identify types of wireless broadband products
- » **Product information**

Product information

» HP Compaq nc6320 notebook computer



» Product information

» HP Compaq nc6400 notebook computer



» Product information

» HP Compaq tc4400 Tablet PC



» Product information

» HP Deskjet 460wbt Mobile Printer (C8153A)



» Product information

[» Return to overview](#)

Rate this information