

Digital subscriber line 12805

Technology



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Digital Subscriber Line new technology that takes advantage of standard copper

telephone line to provide secure, reliable, high-speed Internet access. DSL

refers to the family of digital subscriber line technologies, such as ADSL, HDSL,

and RADSL. Connection speed for DSL ranges from 1.44 Mbps to 512 Kbps downstream

and around 128 Kbps upstream. Unlike traditional connections DSL such as analog

modems and ISDN, DSL deliver continuous “always on” access. That means

multimedia-rich websites, e-mail, and other online applications are available

anytime. DSL makes it possible for you to remain online even while you’re

talking on the telephone-without jeopardizing the quality of either connection.

DSL is available in a spectrum of speeds. Some are best home use, while others

are designed to accommodate rigorous business demands. Whether for business or

the home, DSL, offers unsurpassed price/performance value compared to other

online options. There are the five facts that one should know about DSL. It is remarkably fast. With DSL service, you can benefit from Internet speeds that are

up to 12 minutes faster than a typical ISDN connection and 50 times faster than

traditional 28.8 Kbps modems. This means that in the 12 seconds it takes to read

this information, you could have downloaded a 2 megabyte presentation file or

web photograph. It would take 10 more minutes (600 more seconds!) to download

the same with a traditional 28.8 Kbps. It's highly reliable. One can depend on

DSL because its proven technology takes full advantage of the existing

telecommunications infrastructure. It's inherently secure. DSL network

provides a dedicated Internet connection via private telephone wires, you can

bypass dial-up intruders or shared network hackers. Unlike traditional dial-up

modems or cable modems. DSL protects your valuable data with the most secure

connection available. It's surprising affordable. DSL is widely recognized as the most cost-effective connectivity solution for small business. DSL delivers

industrial- strength like speed to multiple users at only 25% of typical TI

costs. There is no better price option available. DSL is also an exceptional

value for home users. At about \$2 a day for services that meets the needs of

most people. The connection is always on. It's ready to run every minute of

the day. There's no more logging on and off. No more busy signals or

disconnects. This gives you the freedom to focus on what you want to accomplish

on line rather than focusing on trying to get connected. In fact, you can be

more productive because the power and immediacy of the internet is continuously

available at your fingertips. DSL is a network access technology that

telephone companies have been testing and refining since the beginning of the

decade. It has unique advantages that it can provide high speed digital

transmission over 750 million ordinary phone lines that make up our

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communication infrastructure. Speed 384 Kbps 128 Kbps 28.8 Kbps 2 Mb image files

72 seconds 3.6 minutes 15.9 minutes 72 MB video 43 minutes 2.2 hours 9.6 hours

DSL enables today's users to gain continuous access to the Internet or corporate Local Area Networks (LANs) at an amazing rate of 25 times to 100 times

faster than the 56.6 kilobits per second modems. DSL modems use sophisticated

digital coding techniques that squeeze up to 99% or more capacity out of an

ordinary phone line, making a super-fast network access possible. DSL was

originally developed to support video on demand services that telephone

companies planned to offer to compete with cable companies. However most

companies have backed away from these services. Instead, DSL's high speed

capacity have made it the technology of choice for the majority of the lines

leased by large corporation for private voice and data networks. DSL comes

in

many different varieties: ADSL Asymmetric or Asynchronous Digital

Subscriber

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Line service transmits faster on direction (1.544 Mbps downstream to the house)

than the other (384 Kbps to the telephone company's CO). ADSL based services offer high power Internet users who want to download large files and

other resources from the Web in less time than it normally would. SDSL Symmetric

Digital Subscriber Line (also known as the single line) provides 144 Kbps of bandwidth in both directions. SDSL is cheaper than other services provided by DSL. It has the ability to transfer information in both directions. It's ideal for most business applications, including internet access, or connecting remote offices of large corporations. ISDN Digital Subscriber line service is designed to accommodate users that already invested in ISDN. This is business

oriented service, it provides ISDN signalling at 144 Kbps over a DSL circuit. It plugs into existing ISDN equipment at a local carrier's CO. HDSL High speed Digital Subscriber Line, it runs approximately 6 Mbps. This service is used to provide T-1 digital services (1.544 Mbps) over standard telephone lines.