

SCHOOLS AND LIBRARIES^{2, 3}

Eligibility List

SERVICE	ELEMENT/ DESCRIPTION	ELIGIBLE YES/NO	PARAGRAPH CITE
TELECOMMUNICATIONS SERVICES			
<p>The primary purpose of the services for which support is sought must be the delivery of services to the classrooms or other places of instruction at schools and libraries that meet the statutory definition of an eligible institution. Support for the administrative functions of library or education programs is permitted so long as the services are part of the network of shared services for learning. Support will be limited to services delivered to the onsite educational facility or facilities.⁴</p> <p>The Paragraph Cite column represents the paragraph from FCC 97-157, FCC 97-420, Appendix or the FCC Public Notice "Updated Frequently Asked Questions on Universal Service and the Snowe-Rockefeller-Exon-Kerrey Amendment" that is most closely associated with the particular service. The information in the column is not intended to be all inclusive and other references should be considered.</p> <p>To be eligible for support, Telecommunications Services must be provided by an eligible Telecommunications Service provider, that is, one who provides Telecommunications Service on a common carriage basis. A provider/carrier is providing services on a common carriage basis if it holds itself out to provide service generally to the public for a fee. A State commission may upon its own motion or upon request designate a common carrier that meets the requirements as set forth in the Communications Act of 1934, Section 214 {47 U.S.C. 241} (e) (2) Designation of Eligible Telecommunications Carriers.</p>			

Items in **Bold** indicate an addition or modification of a product or service.

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¹ Federal-State Joint Board on Universal Service, CC Docket No. 96-45, Report and Order, 12 FCC Rcd 8776 (1997).
ERRATA released 6/04/97 and 12/24/97.

² Eligible schools and libraries should receive discounts of between 20 and 90 percent on all Telecommunications services, Internet access and internal connections provided by Telecommunications carriers.

³ Eligible schools and libraries will be permitted to apply their relevant discounts to information services provided by entities that consist of:

- (i) the transmission of information as a common carrier;
- (ii) the transmission of information as part of a gateway to an information service, where that transmission does not involve the generation or alteration of the content of information but may include data transmission, address translation, protocol conversion, billing management, introductory information content, and navigational systems that enable users to access information services that do not affect the presentation of such information services to users; and
- (iii) electronic mail services [e-mail].

⁴ Formal position statement adopted by the Schools and Libraries Corporation Board of Directors on November 20, 1997.

CC DOCKET NO. 96- 45¹

900	"900" is an information service area code, or dial access code, used to reach a wide range of information providers. Examples of the information that may be provided via a 900 number are adult content programming, weather reports, lottery results, or caller voting for various topics such as television polls. 900 Service calls are charged to the party originating the call. Charges for accessing 900 calls are often included in the toll charges on the local telephone bill. Calls made to 900 Service providers often include a preamble identifying the charges that will be incurred if the call is completed. 900 Service and the cost of dialing into a 900 Service Provider is not eligible for discount. The charges that are reflected on the telephone bill of schools and libraries are therefore ineligible for discount.	No	431 436 437
900/976 Call Blocking	A monthly, or recurring, telephone company charge for the blocking of calls to 900 or 976 numbers. The blocking prevents callers from completing calls to 900 or 976 numbers, which are not eligible for discount.	Yes	431 436 437
ADSL	Asymmetrical Digital Subscriber Line, or ADSL, is a modem technology that transforms ordinary phone lines (also known as "twisted copper pairs") into high-speed digital lines for ultra-fast Internet access. ADSL also enables access to corporate networks for telecommuters, as well as exciting new interactive multimedia applications such as multiplayer gaming, video on demand and video catalogs. ADSL as a Telecommunications Service is eligible for discount. Internal Connections used to support ADSL are also eligible, so long as they are not otherwise ineligible. Such ineligible Internal Connections are modems.	Yes	431 436 437
Asynchronous Transfer Mode (ATM)	ATM is a high bandwidth switching technology that can handle all types of traffic such as voice, video, data, images, high quality audio and multimedia. It uses small, fixed size cells and is asynchronous because cells are transmitted through a network on an "as needed" basis and not merely transmitted during specific time intervals. It can be used for both WAN and LAN applications and provides a seamless interworking between the two. ATM is a technology designed to combine the benefits of switching technology with those of packet switching.	Yes	431
Basic Telephone Service	The basic telephone service provided by the telephone company. ⁵ Basic telephone service includes both "Plain Old Telephone Service" and long distance telephone service. See POTS for complete description.	Yes	431 FCC Q & A. Public Notice July 2, 1997 Q. 6
Cable TV Access	Only if the service is provided as a commercially available Telecommunications Service, or part of Internet access, or an internal connection that is necessary to transport information to individual classrooms. Under the cite, cable providers are not	Conditional	§ 54.703 Appendix I Final Rules

⁵ Please note that if ordering ONLY Basic Telephone Service and submitting a Form 471 application ONLY for Basic Telephone Service, you are not required to prepare, submit and have an approved Technology Plan.

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	normally considered providers of interstate Telecommunications.		459
Cellular Service	<p>Technology that uses radio transmissions to access other telephone-company networks. Service is provided in a particular area by a low-power transmitter.</p> <p>The cost of Cellular service is eligible for discount, but the cost of telephones, or associated maintenance on the equipment is not.</p> <p>Cellular service is eligible for discount when provided for use at a place of instruction and for educational purposes. The service is not eligible when provided for such uses as security on school buses.</p>	Yes	748 FCC Q&A Public Notice July 2, 1997
CENTREX	A private communications system which consists of a wide variety of features provided by central office software and extended to the customer's premises via local distribution facilities.	Yes	431
Coin Telephone Service (Payphone)	Telephone service provided in a public, or semi-public, place and which requires the use of coins, credit card, pre-pay card or other means of payment for the telephone call, at the time of placing the call(s). Formally called coin telephones, payphone service allows the caller to pay for the call in number of ways, including prepaid, collect and third party billed. Both the payphone service and the cost of the actual payphones are ineligible for discount.	No	453 459 460
Digital Data Service	Sub-T-1 Facilities - Provides a 4 wire synchronous circuit at rates of 2.4, 4.8, 9.6, 56, 64 Kbps. It may be provided either hubbed or non-hubbed.	Yes	431
Digital Subscriber Line (DSL)	Digital Subscriber Line (DSL) is a technology that allows the transmission of voice, data and video over existing copper telephone lines at high speeds. DSL provides dedicated bandwidth that can be up to 278 times faster than a 28.8 Kbps modem, 143 time faster than 56 Kbps modem and 62 times faster than ISDN. There are other DSL technologies that can also qualify for "e" rate. They are SDSL, HDSL, IDSL and VDSL.	Yes	431 436 437

Direct Broadcast Satellite	Direct Broadcast Satellite (DBS) is a digital system that uses satellite to transmit TV programs to its subscribers. The transmitted signals are received using individual roof top antennas. Program reception of the subscriber is limited to those channels broadcast by a specific provider.	No	431
Directory Listing	Additional - Unlisted - Non-Published A telephone company directory contains an alphabetical listing, by name, of all telephone subscribers except those requesting unlisted or non-published service. Typically, the initial directory listing is provided free of charge to the subscriber. Additional listings are those in addition to the initial telephone listing. Unlisted numbers and those that are non-published incur additional recurring charges. Fees for an additional directory listing, an unlisted number and an unpublished number are not eligible for discount.	No	437
Direct Inward Dialing	Direct Inward Dialing (DID) service, which allows outside calls to be directed to a Private Branch Exchange station line without the use of an operator, is eligible for discount.	Yes	460
Distance Learning	A service that utilizes video and audio technologies allowing students who are remotely located from other students, or the lecturer to participate interactively with the class, and is eligible if provided as a Telecommunications Service.	Conditional	437
	Monitors	No	460
	Video Cameras	No	460
	Video CODEC (see Video Conference Section)	No	460
DS-1 (Digital Signal 1)	DS-1, which stands for Digital Signal 1, is the North American Digital Hierarchy signaling standard for transmission at 1.544 Mbps. DS-1 supports 24 simultaneous DS-0 signals. The term DS-1 is often used interchangeably with T-1, although DS-1 signals may be exchanged over other transmission systems. DS-1 is an eligible Telecommunications Service. DS-1 may also be provided as Dedicated Services under Site Specific services. DS-1 can also be offered through an Internet service provider as a component of an Internet package and, therefore, is eligible as Internet Access as well as a Telecommunications Service.	Yes	431 436 437
Fractionalized T-1	Provides a data rate between 56Kbps (DS-0) and 1.544 Mbps. It is typically used for LAN interconnection, video conferencing, high-speed mainframe connection and computer imaging. It is typically provided on four-wire copper circuits.	Yes	437

Frame Relay Service	A form of packet switching utilizing smaller packets and requiring less error checking than more traditional forms of packet switching. A frame-based technology for the transfer of protocol-oriented data, frame relay is characterized by connection-oriented services up to 50 Mbps.	Yes	437
	UNI Link - Port, Channel Termination and Mileage These services provide the physical electrical and functional demarcation point between the user and the telecommunications carriers, public switched network facilities and are eligible for discounts.	Yes	437
	NNI Link - Port, DS1CT Connection, Permanent Virtual Connection (PVC) A permanent association between two DTE's (Data Terminal Equipment) established by configuration. PVC uses a fixed logical channel to maintain a permanent association between the DTE's. PVCs are widely used in X.25 networks and are the basis on which communications take place in a Frame Relay Network.	Yes	437
HDSL	HDSL is high-data-rate digital subscriber line. One of four DSL technologies, HDSL delivers 1.544 Mbps of bandwidth each way over two copper twisted pairs. HDSL requires two twisted pairs, so it is deployed primarily for PBX network connections, digital loop carrier systems, interexchange POPs, Internet servers, and private data networks.	Yes	431 436 437
High Capacity Service	Digital transmission links with capacities of 1.544 Mbps to 274.176 Mbps. As an example: T-1s use two pairs of normal twisted wires and provide 24 voice channels, each one digitized at 64 Kbps. It is typically used to connect networks across remote distances.	Yes	437
Homework Hotline Service	This service typically provides a toll free telephone number for students to contact the school regarding questions on homework. The service is eligible as a Telecommunications Service. If the service is provided as a voice mail service, the voice mail service is ineligible. Additionally, only that portion of the service located at the school/classroom is eligible. Elements of the service located at, or originating from, the student location are ineligible. See Footnote 4 and SLC Board Position Statement on page 1.	Yes	444

<p>ISDN</p>	<p>Integrated Services Digital Network (ISDN) is a system that provides simultaneous voice and high-speed data transmission through a single channel to the user's premises. There are two basic offerings that are standard ISDN service.</p> <p>(1) the Basic Rate (BRI), is 2B+D which provides for two 64 Kbps channels to carry voice or data plus a 16 Kbps signaling channel and</p> <p>(2) the Primary Rate (PRI), is 23B+D which provides twenty three 64 Kbps channels and a one 64 Kbps signaling channel. The "B" channels are used to carry the data information that is to be transmitted, while the "D" channel carries addressing and other call related information. As a commercially available Telecommunications Service, ISDN is eligible for discount.</p>	<p>Yes</p>	<p>437</p>
<p>Interactive TV (Television)</p>	<p>Interactive TV (ITV) provides a means for a viewer to interact with the television set in ways other than controlling the channel and the volume and handling videotapes. Illustrations of the type of interactive TV uses that may be selected are: choosing a video film for viewing from a central bank of films, playing an interactive game with other users of Interactive TV, voting, sending or receiving medical information; or providing other immediate feedback through the television connection, banking from home, and shopping from home.</p> <p>In an education setting such as in a school, ITV provides a means for teachers and students who are remotely located in different places to conduct a class and to interact with each other. ITV requires special "set-top box" to be added to the existing television set. ITV can be provided through a cable modem which extends the TV cable bandwidth to the television set, or via a personal computer</p> <p>Only the facilities, or communications paths, used for Interactive TV and inside cabling, or wiring, are eligible for discounts. Set top boxes, cable modems, televisions and other equipment are not eligible for discounts.</p>	<p>Conditional</p>	<p>437</p>
<p>LAN Interconnect Service</p>	<p>LAN Interconnect Service, which connects various locations of a wide area network—typically through leased private line services—through facilities leased from a telecommunications common carrier, is eligible for discounts. If the service is not leased from a telecommunications common carrier, the service is not eligible for discounts.</p>	<p>Conditional</p>	<p>437/</p>

<p>Local Loop</p>	<p>The Local Loop is the physical pair of wires that are used to deliver Telecommunications Services from the telephone company central office to the subscriber's location. Typically, the local loop ends at the Demarcation Point, or the point in the network where the responsibility of the telephone company ends and the subscriber's begins. In most cases that occurs at the Network Interface Device (NID), which is located at the building entrance point. The Local Loop is an eligible Telecommunications Service.</p>	<p>Yes</p>	<p>431 436 437</p>
<p>Local Measured Service</p>	<p>Local telephone companies use one of two methods to bill for local wireline service. The first method is Flat Rate in which all originating, or outgoing, local calls are billed at a fixed monthly rate. The other method is Local Measured Service in which the subscriber is permitted a small number of local calls, typically 50, with their basic service and then pays incrementally for additional originating calls. Terminating, or incoming calls, are not included and are included in the basic rate for the telephone service with no additional charge.</p> <p>The rate charged for the outgoing calls billed with Local Measured Service can be dependent on the time of day, day of week and distance.</p> <p>Local Measured Service is an eligible Telecommunications Service.</p>	<p>Yes</p>	<p>431 436 437</p>
<p>Long Distance Service & Charges</p>	<p>Long Distance Service and associated charges are eligible for discount. This is the service provided by interexchange long distance carriers that provides interstate and interLATA telephone calls.</p>	<p>Yes</p>	<p>431 436 437</p>
<p>Message Rate Service</p>	<p>Message Rate Service is one method for billing local telephone calls based on the number of units used during a billing period.</p>	<p>Yes</p>	<p>437</p>
<p>Non-Published Telephone Line Charge</p>	<p>These are the monthly charges incurred to have a telephone number not be published in the directory. Normally, telephone companies provide a listing of the telephone number in the white and yellow pages of the telephone directory free of charge to their business customers. Residential customers normally receive a free listing in the white pages. Some companies do not publish the subscriber's number in the directory, but will provide it with "Directory Assistance." This charge is ineligible for discount.</p>	<p>No</p>	<p>428</p>

Paging Service	<p>Paging is a service designed to deliver a message to a person whose exact location is unknown. The service employs selective radio signals that activate a paging receiver carried by the intended recipient to deliver a text, or voice message.</p> <p>The cost and maintenance of pagers, paging equipment is not eligible for discount.</p>	Yes	FCC Q&A Public Notice July 2, 1997
Payphone Service	See Coin Telephone Service for description of service.	No	437
Permanent Virtual Circuit (PVC)	<p>Permanent Virtual Circuits (PVCs) are shared connections between end-points and do not require the use of call set-up and tear-down procedures because each end-point is permanently allocated a portion of bandwidth. The path between users is fixed. If one or more end-points has no data to transmit, its portion of the bandwidth goes unused. PVCs play a central role in Frame Relay networks. They're also supported in some other types of networks, such as X.25.</p> <p>As a Telecommunications Service, the cost of PVCs is eligible for discount.</p>	Yes	431 436 437
Personal Communications Services	<p>Personal Communications Services (PCS) is an advanced wireless network architecture that uses radio transmissions to access other telephone-company networks.</p> <p>PCS is eligible for discount when provided for use at a place of instruction and for educational purposes. The service is not eligible when provided for such uses as communications on school buses.</p> <p>The cost of telephones, or associated maintenance on the equipment is not eligible for discounts.</p>	Yes	FCC Q&A Public Notice July 2, 1997
POTS	<p>Plain Old Telephone Service</p> <ul style="list-style-type: none"> Single Party Service Dual Tone Multi frequency (DTMF) signaling or equivalent Voice grade access to the public switched network Access to 911, or Enhanced 911 Access to operator services, interexchange service, directory assistance 	Yes	FCC Q & A. Public Notice July 2, 1997 Q. 6
Programmed Audio Service	A channel for the transmission of complex signal voltage that is typically used for radio broadcasting, noncommercial educational audio and wired music.	Yes	437

Radio Loop	Radio Loop, is provided by a local exchange telecommunications carrier and is called Basic Exchange Telecommunications Radio Service (BETRS). BETRS is used by local telephone companies to provide dial tone to subscribers in certain circumstances, such as when it is either not technically possible, or cost effective , to provide the service by conventional means. When used as a means of providing an otherwise eligible Telecommunications Service it is eligible for discounts. BETRS should not be confused with Wireless Wide Area Networks, which are purchased, or built by a school or library.	Yes	437
Satellite Service	<p>When provided by a Telecommunications Service Provider, or to access the Internet, satellite service is eligible for discount. Use of satellite services to participate in academic symposiums, or lectures, and for access to the Internet at local calling rates is eligible.</p> <p>Although identified as a Telecommunications Service, it should be noted that Satellite Service for Internet Access is also eligible and applications may be submitted reflecting that use.</p> <p>The equipment used for satellite access to the Internet is only eligible if leased, because this constitutes Wireless Wide Area Network equipment used for Internet Access. Wireless equipment used for voice and data (Telecommunications) is not eligible, if used for a Wireless Wide Area Network.</p>	Yes	431 562 624 748
Serial Digital Video Service	Serial Digital Video Service at 270 Mbps is provided over standard fiber optic facilities for transporting a video signal that has been encoded to 270 Mbps in conformance with NTSC System M digital television equipment. SDVS-270 is designed for one-way, point-to-point applications.	Yes	431 436 437
Shared POTS	Same as POTS, except the service is shared between two entities. As an example, a telephone line may be shared between a parochial school and the church administrative offices. Only that portion of the service relating to the school would be eligible.	Conditional	437
SMDS	Switched Multi-Megabit Data Service (SMDS) is a high speed, packet switched data service that is independently-addressed and switched without prior establishment of a network connection or virtual call. SMDS is a switched service using cell-relay technology with the capability of offering transport capacity for data and images at speeds up to 45 megabits per second (Mbps), with potential extensions to 155 Mbps.	Yes	437

Sub-voice Grade Facilities	Such as telegraph channel service.	Yes	437
T-1 (Trunk Level 1)	<p>T-1, or Trunk Level 1, is a digital transmission facility operating with a nominal bandwidth of 1.544 Mbps. T-1 is also referred to as DS-1 or Digital Signal Level 1 and in most cases is composed of 24 DS-0 channels. The T-1 transmission signal is the primary digital communications signal in North America and is an eligible Telecommunications Service. T-1 may also be provided as Dedicated Services under Site Specific services.</p> <p>T-1 can also be offered through an Internet Service Provider as a component of an Internet package and therefore can be listed as Internet Access, as well as a Telecommunications Service.</p>	Yes	431 436 437
Trunk	A trunk is a communications path between two switching systems. The term switching systems typically includes equipment in a telephone company central office and a Private Branch Exchange (PBX). Central Office trunks connect a PBX to the switching system at the central office. Tie trunks connect two PBXs together. Most often trunks are provided by Telecommunications Service Providers and are eligible for funding.	Yes	431 436 437
Toll Charges	IntraState, InterState, International	Yes	431
Unlisted Telephone Line Charges	These are the monthly charges incurred to have a telephone number not be published in the directory, or provided by "Directory Assistance". Normally, telephone companies provide a telephone listing in the white and yellow pages of the telephone directory free of charge to their business customers. Residential customers normally receive a free listing in the white pages. Charges incurred to have a telephone line unlisted are not eligible for discount.	No	428
Video Service	<p>A channel with one-way transmission capability for standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signals.</p> <p>Video Service is considered an eligible service, so long as the service is provided as a commercially available Telecommunications Service.</p>	Yes	431

INTERNAL CONNECTIONS			
<p>Internal connections are a component of the institution's internal connections only if that piece of equipment is necessary to transport information all the way to the individual classroom. They are connections between or among multiple instructional buildings that comprise a single school campus or multiple non-administrative buildings that comprise a single library branch, but do not include connections that extend beyond that single school campus or library branch.</p>			
911/E911 Enhancements to PBX	Enhancements to Private Branch Exchange (PBX) equipment to facilitate outgoing call traffic to 911/E911 Public Safety Answering Positions (PSAPs) can be used to bypass the system operator and individual station restrictions.	No	433
Address Blocking Unit	A Packet Switching device that directs workstations to talk to a particular server during boot up of the LAN network which allows for the terminals to be booted from the server they have been designated to talk to by the Address Blocking unit.	Yes	459 460
Antenna	<p>A device for transmitting, receiving or both transmitting and receiving signals. Antennas should not be confused with a radio tower, which is not eligible.</p> <p>Antennas as part of a Wireless Local Area Networks (LANs) are an eligible Internal Connection. Antennas used for Wireless Wide Area Networks (WANs) are eligible only if leased and used as part of cost effective access to the Internet. Antennas used for the transmission of voice and data over Wireless WANs are not eligible, nor are those that are purchased.</p>	Conditional	459 460
Asbestos Removal	The cost incurred in the removal of asbestos is not eligible for discount.	No	460
Automatic Call Distribution System (ACD)	An Automatic Call Distribution system, typically used with a PBX, provides a means of automatically distributing calls evenly, on a next available agent basis so that productivity is maintained and inbound calls are handled efficiently. The system also allows the monitoring of operation on a real time basis. Additionally, some ADC systems compile historic reports that enable better utilization of resources in the handling of incoming calls.	No	459 460
Automatic Route Selection (ARS)	Automatic Route Selection (ARS) is a PBX and Centrex service that allows for automatic selection of the most efficient and cost effective route. It may also be referred to as "least cost routing". By using the ARS feature, PBX and Centrex stations are routed to the most cost efficient service, or facilities, to make outgoing telephone calls. The cost of the equipment required to provide ARS is eligible for discount.	Yes	459 460

Back Up Power Supply	A power supply that provides a source of power in the event the main power supply fails. The battery back up power supply is eligible only if part of, or used with, an eligible component.	Conditional	459 460
Battery Backup	A battery which provides power to a unit or system when the main AC power fails. The battery backup is eligible only if part of, or used with, an eligible component.	Conditional	459 460
Battery Module	The battery module is a component of Internal Connections that provides redundant and/or backup power supply. The battery module is eligible only if part of, or used with, an eligible component.	Conditional	459 460
Beeper	<p>Beeper is a term used for a mobile pager. It is the receiving end of a paging service and is a small device worn on the belt, or carried in a handbag. Beepers provide text or voice messages, or both.</p> <p>The purchase of Beepers is not eligible for discount, nor is their maintenance or lease. Beeper/Paging Service is eligible as a Telecommunications Service.</p>	No	460
Broadband Amplifier	A device utilized to amplify UHF, VHF or FM radio signals greater than 3 kHz. If used in the transmission of voice and data signals in conjunction with eligible internal connections, the Broadband Amplifier is eligible. If used in conjunction with ineligible Internal Connections such as video equipment, it is not.	Conditional	459 460
Broadband VHF & UHF Preamplifiers	<p>Broadband VHF & UHF Preamplifiers are designed for use with wideband TV antennas. Preamplifiers are electronic devices which maintain or establish an audio or video signal at a predetermined signal strength, prior to that signal being amplified for reproduction through a monitor or speaker.</p> <p>Preamplifiers are not used in the delivery of Internet or Telecommunications to the classroom, or library patron. They are most often components of video or audio systems.</p> <p>Preamplifiers are not considered eligible for discount.</p>	No	459 460
Cabinet Mounted Power Strips	Cabinet mounted power strips are incidental to equipment cabinets installed to house eligible equipment. Power strips are considered eligible only if they are a component part of an eligible service or product.	Conditional	459 460

<p>Cable Boxes</p>	<p>The cable box is the name used by some vendors and service providers for a cable modem. They are modems designed for use on a TV coaxial cable circuit. Cable modems can connect to the computer with the standard 10Base -T Ethernet connection, operating at speeds up to 10 Mbps. Cable modems differ from conventional dial-up modems in that they provide greater bandwidth. As with other modems, cable modems are not eligible for discount.</p> <p>If the cable box is part of a coax television system, it is an attachment to the end of the cable and used as a modem, such as for selecting cable channels and would be ineligible for discounts.</p> <p>If the cable box is not used as a cable modem and houses cable such as in Cat-5 cable, the box is considered part of inside wiring, and is eligible for discounts.</p>	<p>Conditional</p>	<p>459 460</p>
<p>Cable Modem</p>	<p>A cable modem is a modem designed for use on a TV coaxial cable circuit. The cable modem is designed to provide asymmetric bandwidth, with more capacity in the direction of the customer premise from the headend equipment. The modem acts to modulate and demodulate the same as a conventional modem.</p> <p>Modems, in any form, have been ruled to be ineligible for discount.</p>	<p>No</p>	<p>460</p>
<p>Call Accounting Systems</p>	<p>Call Accounting Systems provide comprehensive call costing by translating call record detail output based upon a user profile. Call Accounting Systems can be used to provide details on the actual usage of the system for assessing the effectiveness of telephone services or to itemize calls to specific groups, departments or individuals for cost allocation and individual billing purposes. Call accounting systems are not necessary to transport Telecommunications or Internet access to the classroom or publicly accessible rooms of a library, and are not eligible for discount.</p>	<p>No</p>	<p>460</p>

Call Sequencer	A Call Sequencer, also called Automatic Call Sequencer, is a device or adjunct piece of equipment, used with a PBX or Key system. The call sequencer distributes incoming telephone calls among a select number of stations or telephones. It may also be used to answer incoming telephone calls and provide prerecorded announcements to the caller. Some call sequencers are also designed to generate statistical reports on number of calls and how those calls were handled. Call sequencers are not necessary to transport Telecommunications or Internet access to the classroom or publicly accessible rooms of a library, and are not eligible for discount.	No	460
Cartridge Magnetic Tape	Cartridge Magnetic Tape, which holds a magnetic tape of some type and is a storage device, is not eligible for discounts.	No	460
CD Tower	CD ROM Towers are multi-bay CD ROM storage devices used to provide high speed access to text, pictures, video and sound stored on CD ROM discs. Provide in a wide variety of speeds and capacities, CD ROM Towers when used with network servers, offer schools and libraries access to large volumes of data. Storage devices are not eligible for discount.	No	460 461
Channel Service Unit (CSU) Data Service Unit (DSU)	A device to terminate a digital channel at a customer premises. It performs certain line coding, line conditioning and equalization functions, and responds to loop back commands sent from the telephone company central office. A CSU sits between the digital line entering the customer premises from the central office and devices such as channel banks or data communications devices.	Yes	460
Circuit Card	A board with microprocessors, transistors, and other small electronic components. Such a board slides into the slot of a telephone system or personal computer. The circuit card must be a component of an eligible service, or a piece of equipment necessary to transport information to the individual classroom.	Conditional	459 460
CODEC	The coder/decoder, also known as CODEC, is a device comprising an encoder and decoder in the same equipment. The CODEC produces a coded output and compresses and decompresses audio and video signals.	No	460
Communication Server	The communications server is a type of gateway that translates the packetized signals of a LAN to asynchronous signals, usually used on telephone lines. It allows nodes on a LAN to share modems, or host connections.	Yes	459 460

Conduit	<p>Conduit as a means for housing internal connections to operate a local area network is eligible for discounts. This means that the physical casing (known as conduit), and its installation and maintenance, is eligible for discounts, provided that the conduit is used to house facilities that meet the definition of internal connections.</p> <p>Conduit located inside an eligible entity's building (school or library) as well as conduit between eligible buildings located on a single campus (not crossing a public right of way) is eligible for discounts.</p>	Conditional	459
Connector	A device that electrically connects wires or fibers in cable to equipment, or other wires or fibers. A connector at the end of a telephone cable or wire is used to join that cable to another cable with a matching connector or to some other telecommunications device.	Yes	459 460
Console, PBX/Centrex	The operation of a PBX requires the use of a switchboard or console for the transfer of incoming calls to the appropriate extension when systems are not equipped with Direct Inward Dialing. Centrex systems also use a switchboard, or console, for this operation although they are not always required since Centrex provides direct inward dialing capability to the station user.	Yes	459 458
Console with DSS	The operation of a PBX requires the use of a switchboard or console for the transfer of incoming calls to the appropriate extension when systems are not equipped with Direct Inward Dialing. Centrex systems also use a switchboard, or console, for this operation although they are not always required since Centrex provides direct inward dialing capability to the station user.	Yes	459 458
Copper Backbone Cabling	The physical/electrical connections between telecommunications closets and equipment rooms. Cross-connect hardware and cabling in the Main and Intermediate Cross-Connects are considered part of the backbone wiring. This item is covered under Wiring, Internal in the Eligibility List.	Yes	459 460
Coupler	The coupler is the device installed by cable companies that allows users to connect more than one television set to the cable feed entering the premises. If the coupler is part of the installation of coax cable, then the coupler is eligible for discounts. If a part of installation of cable television service, the coupler is not eligible for discounts.	Conditional	459 458

DAT Digital Tape Drive	Digital tape drive is a part of a file server used to store digital data onto digital cassette. It is typically used for back-up purposes and is eligible if used in an eligible server.	Yes	459 460
Data Equipment, Miscellaneous	Including, but not limited To: Channel Banks, Digital Cross Connects and Network Servers (Including Necessary Operational Software),(see Personal Computer)	Yes	458 460
Digital Video Disc (DVD)	Digital Video Discs or DVDs are storage devices similar to CD-ROM discs but able to store much more music, video and data. Their predominant use today is for full motion video. DVDs are not eligible for discount.	No	459 460
Digital Video – Read Only Memory Player	A Digital Video Disc - Read Only Memory or DVD-ROM Player or drive is a device which plays or reproduces the music, voice and/or video from a Digital Video Disc. It is not eligible for discount.	No	459 460
DIMM	DIMM is short for Dual In-line Memory Module, a small circuit board that holds memory chips. A Single In-line Memory Module, or SIMM, has a 32-bit path to the memory chips whereas a DIMM has 64-bit path. Because the Pentium processor requires a 64-bit path to memory, SIMMs are installed two at a time. With DIMMs, it is necessary to install only one DIMM at a time. As a component of an eligible server, the DIMM is eligible.	Yes	459 460
Disaster Recovery	Disaster Recovery, which describes the means of restoring service to a computer network that has suffered a disaster, is not eligible for discounts. Such costs may include the rental of a site that houses links and equipment that is modeled after the network.	No	437
Documentation	Documentation includes support material provided in the form of paper or electronic media. It may include diagrams, blueprints, equipment specifications or instruction manuals for eligible services and products. Documentation is eligible for discount if provided as part of the installation of said equipment or service.	Conditional	459 460
Electronic Library	Electronic Library, which is a searchable version of the reference and periodical sections of a library, is not eligible for discounts. An On-Line Public Access Catalog System is not eligible for discounts.	No	458 459
E911 Reader Board	The E911 Reader Board is adjunct hardware for a PBX and used to access E911 Emergency service.	No	459 460

Electrical System Upgrades		No	FCC Q&A Public Notice July 2, 1997
Enhanced Multimedia Interface (EMMI)	The EMMI is an interface that gives PC and workstation users on ATM networks the ability to send and receive full-motion, high quality video, CD-quality stereo and high speed data. Signals are transformed into ATM cells and transported optically, using the Synchronous Optical Network (SONET) standard.	No	458 459
Ethernet Card	The network card connecting end users on a fast Ethernet LAN. Eligible for switches and hubs, but not if located in the workstation.	Conditional	459 460
Ethernet Converter	The Ethernet converter interfaces between the network and the server, or workstation. The converter eliminates the need for a Network Interface Card (NIC) and plugs directly into a RJ-45 data jack. The converter amplifies the signal received from the network. The converter is eligible for discount as part of an eligible server. It is not eligible for discount if installed, or used for a workstation.	Conditional	459 460
Ethernet Network Module	The network interface card "NIC" for an Ethernet network. This card allows for the transmittal of messages to and from the Ethernet LAN switches to the end users on the Network. Eligible for switches and hubs, but not if located in the workstation.	Conditional	459 460
Faceplate	A cover that fits around pushbutton or rotary dial phones. Ineligible as described because telephones are not eligible. A cover over an eligible internal connection such as a jack or outlet is eligible.	Conditional	459 460
FAX Machine	Short for facsimile, it is a device in which the image of a document is transferred over the Public Switched Telephone Network and printed out elsewhere. A device used to transmit and receive electronic messages through a phone line connection.	No	460
File Transfer Protocol	File Transfer Protocol, which is used to connect file servers on a LAN, is eligible for discounts.	Yes	460

FRAD	Short for Frame Relay Assembler/Disassembler, the FRAD is a communications device that breaks a data stream into frames for transmission over a Frame Relay network and recreates a data stream from incoming frames. A Frame Relay router serves the same purpose but provides more intelligence in avoiding congestion. As a component of Internal Connections, FRADs are eligible for discount.	Yes	459 460
Graphics Cards / Adapters	A Graphics Card, Graphics Adapter or Video Adapter is a circuit board fitted to a computer, containing the necessary video memory and other electronics to provide a bitmap display. Graphics Cards are eligible for discount so long as they are a component of an eligible server. Graphics Cards used in workstations or end user PCs are ineligible for discount.	Conditional	459 460
Hard Disk Array Control	Several disk drives in a housing are written to in such a way that if a single drive is lost, the data continues to be stored on another drive. It is done in such a way that data is written across multiple drives and can be retrieved by back-up drives, in the event of a failure. This is the same as RAID, or Redundant Array of Independent Disks.	Yes	459 460
Head-End Equipment	Head-End Equipment-CAT/Video, which is the originating point of signal in cable TV systems, is not eligible for discounts.	No	460
Homework Hotline Equipment	Equipment used to provide Homework Hotline, including text to voice translation modules, recording devices, automatic dialers, automatic call directors and others are not eligible for discount. See Telecommunications Services.	No	459 460
Intercom System	Intercom System, which is a stand-alone system and not integral as a bundled component of a PBX, Centrex or key system, is not eligible for discounts.	No	460
Key System KSU	Key System, also known as Com Key System, is a type of phone system that permits more than one telephone line, PBX extension, private line or intercom line to appear on a single telephone, and is conditionally eligible. Only the costs associated with the common control unit and not any costs associate with telephone sets are eligible for discounts.	Conditional	458 459 460

<p>LAN</p>	<p>A LAN is a short distance data communications network used to link together computers and peripheral devices under some form of standard control. The LAN is most often connected by customer provided links, or telecommunications paths, within the same building.</p> <p>The LAN must meet the definition of internal connections which is defined as necessary to transport information all the way to individual classrooms.</p>	<p>Yes</p>	<p>459 460</p>
<p>Laptop Computer</p>	<p>The Laptop Computer is a lightweight portable computer designed for its mobility. Typically, laptop computers contain the same functionality as the traditional desktop models. Laptop computers are eligible for discount only if they are used as an eligible server. However, in most cases laptop computers will not meet the definition of eligible Internal Connections and will be used as workstations which are not eligible for discount.</p>	<p>Conditional</p>	<p>460</p>
<p>Lightning Arrestor</p>	<p>Lightning Arrestor, which protects computer equipment from lightning and static, is not eligible for discounts.</p>	<p>No</p>	<p>459 460</p>
<p>Line Sharing Device</p>	<p>Line Sharing Devices are devices that allow multiple users to share a common network resource in a multipoint environment. The Line Sharing Unit manages the contention of users for the resource, ensures only one user is connected at a time and all users have an opportunity to have access to the resource. A typical application would be a computer with a single communications port, and multiple remote site controllers with individual modems at each location.</p> <p>While modems used with the Line Sharing Unit are not eligible, the Unit is eligible for discount.</p>	<p>Yes</p>	<p>459 460</p>
<p>Mast</p>	<p>A mast is a structure, or pole, on which an antenna is placed. Typically, it is a tall, vertical, sometimes sectioned pole. Masts are not eligible for discount because they do not meet the definition of Internal Connections.</p>	<p>No</p>	<p>459 460</p>
<p>Master Control Unit</p>	<p>A master control unit is usually the device that controls the main operating functions of the system. A MCU in the video-conferencing medium is a Multipoint Control Unit that bridges videoconferencing links together. Video equipment is ineligible for discount.</p>	<p>No</p>	<p>459 460</p>
<p>Media Converter</p>	<p>A media converter is a module that converts media to media for network compatibility. The actual media can be various forms of communication, fiber to copper or stranded pair. FX to TX is a more common translation.</p>	<p>Yes</p>	<p>459 460</p>

Medium Access Unit (MAU)	MAU's are used to terminate each end of a 10Base-T link. As such, it accommodates two wire pairs, one pair for transmitting the Ethernet signal and the other pair for receiving it. The 1-Base-T standard describes seven basic functions performed by the MAU. The transmit, receive, collision detection and loopback functions direct data transfer through the MAU. The jabber detect, signal quality error test and link integrity functions define ancillary services provided by the MAU.	Yes	459 460
Messaging	<p>Messaging, also called Voice Messaging or Voice Mail, allows the user to receive, edit and forward messages to one or more voice mailboxes in a system. Typically, voice mail is provided as an additional feature of a Private Branch Exchange (PBX), or can also be provided by a telephone company as an optional feature to telephone service.</p> <p>Messaging permits the host to post a message that is played to callers to a telephone number, or PBX extension. Callers may then leave recorded messages for the host. Messaging may also be used to broadcast a message to a large number of users within a system.</p>	No	444
Modem	Modems are devices that convert data signals into suitable form for transmission over a communications medium and recovers data from the received communications link. Voiceband modems are a special class of modems that convert data signals into tones within the bandwidth allocated for voice. Digital radio signals use another class of modems to modify a radio frequency carrier to convey a digital information stream. Included in this category are all modems.	No	460
Modem Card	Modem cards are modems in card form that fit into a slot in the computer. Modem cards used for dial up capability are equipped with tip/ring or transmit and receive modules which when connected to a phone line translate the lines analog signal to a digital signal so it can communicate with the computer.	No	460
Modem Eliminator	Modem Eliminator, which is a wiring device used in place of a modem to interconnect cables and devices typically connected by a modem, at distances up to several hundred feet, is not eligible for discounts.	No	460
Monitors	When used with an eligible server, one computer monitor per server is eligible for discount. Monitors used for workstations are not eligible.	Conditional	459 460
MPEG Video Encoder	MPEG Video Encoder is a device similar to a CODEC that converts analog signals to compressed MPEG.	No	460

<p>Multiplexing</p>	<p>A multiplexer is electronic equipment that allows two or more signals to pass over one communications, or bearer circuit. The "circuit" may be a telephone line, dedicated line, microwave circuit, or a through-the-air TV signal. It provides an economic means for the service provider and customer to transport multiple circuits by combining, as an example, up to 24 voice grade circuits on a single bearer circuit.</p> <p>If provided as part of internal connections for a local area network it is eligible. If provided as part of a wide area network, it must meet the rules governing WANs.</p>	<p>Conditional</p>	<p>437 444</p>
<p>Multipoint Control Unit</p>	<p>A Multipoint Control Unit (MCU) is a bridging or switching device used in support of multipoint videoconferencing and supporting as many as 28 conference sites. The device may be in the form of Customer Provided Equipment, or may be embedded in the Wide Area Network in support of carrier based videoconferencing services. Video equipment is not eligible for discount.</p>	<p>No</p>	<p>460</p>
<p>Multipoint Serial Cards</p>	<p>A printed circuit card installed in an expansion slot of a computer that changes the parallel internal communications of the computer into the one-bit-at-a-time serial transmission for sending information to peripheral devices such as hard disks, printers, zip drives, video adapter, etc. Multipoint serial cards are eligible in servers if the devices they support are eligible.</p>	<p>Conditional</p>	<p>459 460</p>
<p>Network Interface Card (NIC)</p>	<p>An electronic circuit connecting a workstation or server to a network. Usually a card that fits into one of the expansion slots inside a computer. It works with the network software and computer operating system to transmit and receive messages on the network. NICs are eligible if part of an eligible product, or service.</p>	<p>Conditional</p>	<p>459 460</p>
<p>Network Interface Device (NID)</p>	<p>The Network Interface Device, or NID, is a device installed between a telephone network and the inside wire of a customer premises. The NID is generally provided by the telephone company and is the transition, or hand off point between the company's network and the customer's inside wiring.</p> <p>In terms of the "E-Rate" program, it is the beginning of the Internal Connections on the customer's premises. Installed with Telecommunications Services, there is normally no charge for the NID. However, if a cost is associated with the installation of the NID, it is eligible for discount.</p> <p>The NID may be considered part of Telecommunications Services if it is installed coincident with a Telecommunications Service, or as part of Internal Connections.</p>	<p>Conditional</p>	<p>460</p>

Network Management Systems	A system of equipment or software used in monitoring, controlling and managing a data communications network. The system may contain elements such as software, CRT displays and printers, circuitry for diagnostics and reconfiguration of channels, generally housed in an operator console.	No	459 460
On-Line Public Access Catalog System	A system that allows the user to electronically search a library card catalog. On-Line public access catalog systems are storage devices and are not eligible.	No	459 460
Paging Equipment / Systems	Paging equipment typically consists of an amplifier, speakers and a means of accessing the system, such as a dial access unit to a PBX. Paging equipment should not be confused with Paging Service, which is eligible. Paging equipment is not considered telecommunications equipment, or equipment needed to access the Internet.	No	459 460
PC Attendant Console	The PC Attendant Console is an electronic PC (computer) based console used in support of, or in place of, a PBX system. The Console provides the capabilities and features of other attendant consoles, such as call transfers, answer button with queuing, emergency call priority, call waiting count, busy lamp field and many others. One PC Attendant Console qualifies for discount with each eligible PBX, or in place of a PBX system.	Yes	459 460
Personal Computer	Personal Computers, or Workstations, are computers designated, or designed for one person's use. They are distinguished from computers used in the routing of information to individual classrooms.	No	460
Power Conditioner	Power Conditioners, which features both undervoltage and overvoltage regulation and filters undesired noise, is not eligible for discounts.	No	459 460

Power Poles	Power Poles are metal or plastic pipes or poles used for the distribution of Telecommunications and electrical wiring. They are used to carry wire from the ceiling to the floor level and are typically connected to distribution boxes. Power Poles used for the distribution of telecommunications wiring is considered to be an eligible Internal Connection. If used for electrical wiring, the Power Pole is not eligible. If a mixed use, that portion associated with the distribution of electrical wiring must follow existing cost allocations procedures. Those costs associated with the electrical wiring must be excluded.	Conditional	459 460
Power Strips	Power strips are electrical devices considered ineligible for discount. The only exception is if they are a bundled component part of an eligible service or product such as rack mounted power strips. See RACK MOUNTED POWER STRIPS for further information.	Conditional	459 460
Print Server	A print server is a network computer, usually consisting of fixed-disk storage and a CPU, that controls one or more printers that can be shared by users. Print servers may also be a software product.	No	460
Printer	A device, that most commonly accepts computer information and prints it on paper. Printers are not eligible for discount, except those that are provided with a Private Branch Exchange (PBX) for purposes of producing reports directly associated with the operation of the PBX.	Conditional	460
Private Branch Exchange (PBX) (wired & wireless)	A switching system, either manual or dial, usually serving an organization such as a business company or a government agency and usually located on the customer's location. The PBX provides internal station to station dialing and optional access to the public switched network.	Yes	458 460
Processor Terminator Card	The Processor Terminator Card is a device installed in a computer and used to signal the computer that only one processor is installed in a system permitting multiple processors. Systems permitting multiple processors must be equipped with a redundant processor or a Processor Terminator Card. The Processor Terminator Card is eligible if installed in an eligible server.	Conditional	459 460
Programming Charges	Charges for programming of eligible internal connections are eligible for discount to the extent the charges are for the programming of operational software. Only software that is necessary for the operation of the server is eligible for discount. Application software is ineligible, as is its programming charge.	Conditional	451 452 460

Public Address P.A. System	A system that allows the user to make announcements through the use of amplifiers and speakers. Typically, access is provided through a telephone system either manually or automatically by dialing a preassigned number.	No	459 460
Raceway	Raceway, which is a metal or plastic channel used for holding electrical or telephone wire is conditionally eligible for discounts. Raceway located inside an eligible entity's building (school or library) as well as raceway between eligible buildings located on a single campus (not crossing a public right of way) is eligible for discounts. Raceway used for electrical wiring or for Wide Area Network is not eligible for discount.	Conditional	459 460
Rack Mounted Power Strips	Rack mounted power strips are incidental to equipment racks installed to house eligible equipment. Equipment racks are an eligible component of Internal Connections. Power strips are considered eligible only if they are a bundled component part of an eligible service or product.	Conditional	459 460
RAID	Short for Redundant Array of Independent Disks, RAID is a category of disk that employs two or more drives in combination for fault tolerance and performance. RAID disk drives are eligible only if used in an eligible component.	Conditional	459 460
Relay I/O Module	Uninterruptable Power Supply module that integrates full UPS control into dry contact environments such as PBX's.	Yes	459 460
Remote Access Router	A router on a LAN with a digital DSU/CSU built in for dial up or remote access of a network.	No	459 460
Remote Access Server	Multi Protocol remote access server for dial-in, dial-out and LAN to LAN connections over both analog and digital phone lines. This Server provides flexible TCP/IP address assignment schemes for dial-in users and does not limit its use to those meeting the definition of an eligible Internal Connection.	No	459 460
Routers	Routers are switching devices that can act as an interface between two networks and connect different segments such as departments, or floors in a building. Functionally, routers select the routing path for traffic, may provide network management capabilities, such as load balancing and provide trouble shooting diagnostic capabilities.	Yes	460

Satellite Dishes	Satellite Dishes are eligible only if provided as part of Telecommunications Services, or if leased as a component of a Wireless Wide Area Network used to access the Internet.	Conditional	437
SCSI	<p>SCSI or "Scuzzy Disk Drive" is a means, slightly more efficient and faster than a typical IDE hard drive, of getting information into and out of the Microprocessor. It allows devices such as magnetic hard disks, CD-ROM drives and tape drives to interface with the processor. SCSI disk drives usually come with a microprocessor and a termination card.</p> <p>The SCSI is eligible for discount as part of an eligible server. It is not eligible for discount if installed or used for a workstation.</p>	Conditional	459 460
Servers	<p>A computer or device on a network that manages network resources. For example, a file server is a computer and storage device dedicated to storing files. Any user on the network can store files on the server.</p> <p>CD Rom Server</p> <p>Domain Name Server</p> <p>"E" Mail Server</p> <p>File Server</p> <p>Communications Server</p> <p>Terminal Server</p> <p>Web Server</p>	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	<p>461</p> <p>460</p> <p>460</p> <p>460</p> <p>460</p> <p>460</p> <p>460</p> <p>459, 460</p>
SNMP System Management Module	Simple Network Management Protocol adapter that allows for SNMP to be introduced into the Ethernet network to manage devices and their interaction with TCP/IP.	Yes	459 460

Software	Software is only eligible if provided as a component of an eligible Internal Connection. Software for workstations is not eligible for discount.	Conditional	
	<u>Operational Software</u> – software required for server operations.	Yes	460
	<u>Application Software</u> – software such as word processor, spreadsheet, graphics programs, etc.	No	460
	Browser ⁶	No	445
	“E” Mail ⁷	Yes	444
	Fire Wall ⁸	No	460, 444
	Network Administration Software ⁹ Network Management Software ¹⁰ Web Site Construction Software ¹¹	No No No	460 460 No
Spare Parts	Spare parts are usually hardware stored in a storage closet and are used to replace hardware on the network that fails. Spare parts are not eligible.	No	459 460
Speakerphone	A telephone, or telephone adjunct, which has a speaker and microphone for two way hands free conversation.	No	459 460
Speakers for PC/File Server	Speakers are eligible when bundled as a component of a file server, or other eligible server.	Conditional	459 460
Surge Protector	A device that sits between the customer provided equipment and the commercial AC power outlet. It is designed to protect the equipment from high voltage spikes, or surges, which might damage the equipment.	No	460

⁶ Browsers are provided by Internet Providers. Software additional to that provided in a Bundled Access to the Internet are not subject to discount. (Paragraph 445)

⁷ E-Mail Software, which operates an E-Mail server, is eligible for discounts.

⁸ A method of protecting one network from another untrusted network. The actual mechanism whereby this is accomplished varies widely, but in principle, the firewall can be thought of as a pair of mechanisms: one which blocks traffic and another which permits it. Firewalls are eligible only if provided as a component of the file server and there is no associated cost. Otherwise firewalls are ineligible.

⁹ Network Administration Software (different from network operating software), which provides for minimizing accidental reconfiguration and aiding control of client workstations, is not eligible for discount.

¹⁰ Network Management Software (different from network operating software) specializing in the management of automated hardware and software inventory, configuration management, software metering and auditing and extensive reporting and advanced scripting tools, is not eligible for discount.

¹¹ Web Site Construction Software is not eligible for discounts.

Switchboard	The operation of a PBX requires the use of a switchboard or console for the transfer of incoming calls to the appropriate extension when systems are not equipped with Direct Inward Dialing. Centrex systems also use a switchboard, or console, for this operation although they are not always required since Centrex provides direct inward dialing capability to the station user.	Yes	458 460
System Improvements and Upgrades	Improvements/upgrades to eligible services are eligible for discounts. Memory upgrades, for example, to computers that act as routers, switches or hubs to transmit information to or from classrooms or libraries are eligible.	Yes	460 497 572
Tape Backup	Magnetic tape usually containing stored data files of a computer network. Files are downloaded to tape via a tape drive and stored. They are used when a computer network loses its memory, or some other failure of the system occurs. The data can be backed up to tape on a daily or weekly basis depending on how much data is input to the server or CPU. Tape Backup devices are eligible when used as part of an eligible server. They are not eligible when part of a PC, or workstation. The magnetic tapes, which are expendable items, are only eligible if provided as part of the tape backup unit. The cost of purchasing additional or separate tapes is not eligible.	Conditional	459 460 461
Tape Travan	TR-4 tape used with tape drive on file server. Tapes and other expendable items are not eligible for funding.	No	460 461
Telephone, Telephone Instruments	Telephones, also known as telephone sets, telephone instruments, digital voice terminals, and voice terminals are an assembly of apparatus including a telephone transmitter, a telephone receiver, and usually a switchhook, dial and the immediately associated wiring and components. They are the end user equipment used to transmit and receive Telecommunications between two points. Telephones are not eligible for discount.	No	459 460
Terminal Adapter	The Terminal Adapter (TA) is a device that connects a computer to an external digital communications line, such as an ISDN line. TA's are generally eligible for discount. However, some TA's have dual functionality. They combine the function of a fax modem with an ISDN terminal adapter to create a single device that gives access to any compatible ISDN terminal adapter, modem or fax device through a single ISDN line. Those Terminal Adapters with combined functionality are not eligible for discount.	Conditional	459 460

Terminal Server	A small, specialized network computer that connects many terminals to a LAN through one network connection. A terminal server has a single network interface and multiple ports for terminal connections. It allows many terminals to be connected to a host via a single existing LAN cable, rather than a variety of point to point cables.	Yes	459 460
Transceiver	A transceiver is a device that transmits and receives analog or digital signals. The term is used most frequently to describe the component in local area networks (LANS) that actually applies signals onto the network wire and detects signals passing through the wire. For many LANs, the transceiver is built into the network interface card (NIC), while others require an external transceiver.	Yes	459 460
Two Way Radio	Two way radios are wireless devices used to communicate generally over short distances. Typically, they are considered to be end user hardware. Two way radios are not used to provide Telecommunications Services, and do not meet the definition of an eligible Internal Connections.	No	459 460
TX to FX Converter	The TX to FX Converter is a cable converter that converts copper connection to a fiber connection.	Yes	459 460
Uninterrupted Power Supply (UPS)	A device providing a steady source of electric energy to a piece of equipment. A steady offline UPS normally has the load connected to the AC power supply. When main power fails, it transfers the load without any user intervention. UPS are typically used to provide continuous power in case you lose commercial power. It is a back up device.	Yes	459 460
Universal Box	The Universal Box is the name used by some vendors and service providers for a cable modem. They are modems designed for use on a TV coaxial cable circuit. Cable modems can connect to the computer with the standard 10Base-T Ethernet connection, operating at speeds up to 10 Mbps. Cable modems differ from conventional dial-up modems in that they provide greater bandwidth. As are other modems, cable modems are ineligible for discount.	No	460
UPS Interface Expander	A UPS device which provides two additional ports on an existing UPS system which allows for the management of three servers from one UPS.	Yes	459 460
Video Amplifiers	Video amplifiers and other video equipment are ineligible for funding.	No	460

Video Channel Modulator	Video distribution box, which takes standard video and audio input from video cameras, recorders, security systems, satellite receivers, disk players and video games and distributes the signals to the end user.	No	460
Video Conference Equipment	Equipment used for video conferencing service such as CODEC's, TV, Cameras, etc.	No	460
Voice Compression Module	<p>The Voice Compression Module allows voice and fax traffic to share the same lines as data and LAN traffic. A single Voice Compression Module simultaneously compresses up to 32 channels for transmission over public or private frame relay networks or dedicated leased lines.</p> <p>The Voice Compression Module is an eligible component of Internal Connections as long as it is installed in an eligible component. If installed in a workstation, or personal computer, it is not eligible.</p>	Conditional	460
Video Equipment	Video Equipment is ineligible for discount.	No	460
	<p>Enhanced Multimedia Interface (EMMI)</p> <p>The EMMI is an interface that gives PC and workstation users on ATM networks the ability to send and receive full-motion, high quality video, CD-quality stereo and high speed data. Signals are transformed into ATM cells and transported optically, using the Synchronous Optical Network (SONET) standard.</p>	No	460
	<p>Media Retrieval Equipment</p> <p>Media retrieval equipment is used to capture and record video signal. The system includes a computer, controller for record and playback function and imaging and system control software.</p> <p>The system acquires, digitizes and records video on disk for future use and viewing. The storage device is generally a computer hard drive.</p>	No	460
	<p>Room Design Consulting & System Integration</p> <p>Consulting fees are not eligible for discount. Normally, these charges would be incorporated into the cost of the service, which would be eligible.</p>	No	460
	Television	No	460 461

	Video Camera	No	460 461
	Video CODEC CODEC modem that converts video signals from their analog form to digital signals.	No	460
	Video Group & Desktop Equipment Equipment used to control the programming, distribution, and selection of video conferencing or televisions broadcast.	No	460
	Video Recorders	No	460 461
Voice Mail Service	Voice Mail is a service which allows the user to receive, edit and forward messages to one or more voice mailboxes.	No	444
Voice Messaging	<p>Voice Messaging, also called Voice Mail or Messaging, allows the user to receive, edit and forward messages to one or more voice mailboxes in a system. Typically, voice mail is provided as an additional feature of a Private Branch Exchange (PBX) or can also be provided by a telephone company as a optional feature to telephone service.</p> <p>Voice Messaging permits the host to post a message that is played to callers to a telephone number, or PBX extension. Callers may then leave recorded messages for the host. Voice Messaging may also be used to broadcast a message to a large number of users within a system.</p> <p>Voice Messaging and all related equipment and charges are ineligible for discount.</p>	No	444
Voice/Fax Network Module	Voice/Fax modules are an access product that enables the transmission of multiprotocol data, voice, fax and LAN over frame relay, leased line, DDS or ISDN services. Voice/Fax modules are eligible when used in a file server application.	Conditional	460

<p>Web Server</p>	<p>A web server is a computer which is connected to the Internet or Intranet, stores documents, files and displays them to users when accessing the server via http or hypertext transfer protocol. Web server software loaded onto a file server provides the same function.</p> <p>Every Web server has an IP address and possibly a domain name. The server fetches the page named <i>index.html</i> and sends it to your browser. Any computer can be turned into a Web server by installing server software and connecting the machine to the Internet.</p>	<p>Yes</p>	<p>459 460</p>
<p>Wire Manager</p>	<p>Wire Managers are wire restraints to house/arrange wiring and cabling. They can be aluminum or plastic and may be rack mountable.</p>	<p>Yes</p>	<p>459 460</p>
<p>Wireless PBX Adjunct</p>	<p>An adjunct that functions in conjunction with a Private Branch Exchange, to provide wireless capability to the station end.</p>	<p>Yes</p>	<p>458 460</p>
<p>Wiring, Internal</p>	<p>Including, but not limited to: cable (copper/fiber/coax), bays, jacks, blocks, panels, and terminals. Included in this category is all wiring and cable necessary to transport information all the way to individual classrooms. Wiring may also include Category 5 type of wiring.</p>	<p>Yes</p>	<p>458 459 460</p>

ACCESS TO THE INTERNET			
Bundled Access	Bundled access means the service is being provided as a package of services, which may contain components that are not eligible, or contain content. Bundled access to the Internet is eligible only when there is minimal content and it is the most cost effective means of securing non-content access to the Internet than other non-content alternatives.	Conditional	445
Unbundled Access	Unbundled access to the Internet means the eligible services being provided are available individually and are not a part of a package of services.	Yes	445
Browser	Browser is a generic term for software programs that allow the retrieval and display of documents from the World Wide Web. Also called "clients." Browsers can be graphical, allowing the display of graphic images as well as audio and video files with the appropriate helper applications," or text-based (like Lynx). Browsers are provided by Internet Service Providers as part of the package of services offered to their clients at no additional charge. As with other application software the cost of separate browsers purchased by schools and libraries is not eligible for discount.	Conditional	445 446
Domain Name Registration	Domain Name is the portion of a symbolic name that corresponds to the network number in the IP address. In the symbolic name abc@xyz.org, the domain name is xyz.org. Domain Name Registration is the registering of the name and the charge associated with the registration process. Domain Name Registration and other Web related charges are eligible for discount, if they are components of services offered by the Internet Provider.	Conditional	445 446
E Mail Account Fees	E-Mail account fees are charges for individual user access to e-mail services provided by the Internet Provider. E-Mail service provided as a service bundled within Internet access is eligible, but a separate charge for individual users to access the E-Mail service is not eligible. As an example, 5,000 E-mail account fees would not be considered eligible.	No	444
E-Mail Service	E-Mail Service, which provides for the transmission of simple text messages and other embedded data, is eligible for discount.	Yes	444

Filtering Service	Filtering is software or combination software/firmware that protects users from dangerous or inappropriate content on the Internet by blocking Web, FTP and Gopher sites. In this context it is provided by an Internet provider as a monthly service. Filtering is not eligible for discount, whether as a service or if purchased software.	No	444 460
Firewall Service	Firewall Service is a commercially available service provided by a Telecommunications or Internet provider that provides a firewall functionality. Firewall Software in a client's equipment is only eligible if provided as a component of a file server that incurs no identifiable cost and cannot be unbundled.	Conditional	444 460
Internet Content	A service separate from an Internet access where a user can obtain information on a wide variety of topics. Subscription to these services typically requires additional charges to the user. Examples include electronic libraries and on line news services.	No	444
Internet Training	Internet training provided for personnel is ineligible.	No	FCC Q&A Public Notice July 2, 1997
Satellite Access to Internet	The service provides a means of receiving and transmitting information from and to an Internet Service Provider (ISP) via satellite. The connection to the ISP can be accomplished through the use of a dial up line, or dedicated facility, equipped with a modem. The service is eligible for discount if it is part of a bundled Internet service offering and does not include the satellite dish, or modem. When provided as a component of a Wireless Wide Area Network and used exclusively for accessing the Internet, the satellite dish is eligible, but only if leased.	Conditional	444 562
Web Site Creation Fee	A separate fee for creating a website or setting up a web address. This service is sometimes offered as a bundled part of an IP's internet access at no extra cost to the end user. When bundled the service is eligible. If listed separately, with an associated cost, it is not eligible. Website software, as a component of Internal Connections is also not eligible.	Conditional	444 445

MISCELLANEOUS			
Bid Bond	A Bid is a bond, which is generally obtained by a vendor or contractor from a third party, that guarantees the terms of the contract or agreement are met. In the event of default or failure to meet the terms, the bond would be used to complete the contracted work.	No	459 460
Consulting Services	The cost associated with services provided by consultants retained to assist schools and libraries.	No	459 460
Direct Broadcast Satellite (DBS)	Direct Broadcast Satellite (DBS) is a digital system that uses satellite to transmit TV programs to its subscribers. The transmitted signals are received using individual roof top antennas. Program reception of the subscriber is limited to those channels broadcast by a specific provider.	No	431
Electronic Library	Searchable version of the reference and periodical sections of local public library. It indexes and archives magazine and newspaper articles, several encyclopedias, maps, books and television transcripts. Storage devices are not eligible for discount. See Internet content for additional information.	No	460 461
Finance Charges	Finance charges are those charges assessed by third party entities for loans to fund the lease or purchase of items that would normally be eligible for funding.	No	431 459 460
Freight Assurance Fees	Freight assurance fees are fees assessed to the purchaser for the guarantee of safe delivery to their premises of goods. More clearly stated it is shipping insurance. Freight assurance fees are eligible for discount.	Yes	459 460
Interest Charges	Interest charges are those charges assessed by third party entities for loans to fund the lease or purchase of items that would normally be eligible for funding. Interest charges are not eligible for discount.	No	431 459 460
Labor	The labor charges incurred for the installation and contractual maintenance of eligible Telecommunications Services, Internal Connections and Internet Access are eligible for discount. No personnel costs, fees or salaries incurred by schools and libraries are eligible for discounts. The Service Category used for labor should reflect the same service category of the product, or service being installed or maintained.	Yes	450 451 459 460
Leasing Fees	Leasing fees charged for the leasing of eligible services and products. Finance charges associated with leasing are not eligible.	Yes	459 460
Maintenance &	Installation, Labor and Maintenance Agreement (contract or	Conditional	450

<p>Installation</p>	<p>tariff) fees -The charges incurred for the installation and contractual maintenance of eligible Telecommunications Services, Internal Connections and Internet Access are eligible for discount. No personnel costs, fees or salaries incurred by schools and libraries are eligible for discounts. The charges incurred for the maintenance and installation performed on eligible Telecommunications Services, Internal Connections and Internet Access on a time and material basis are eligible for discount. The Service Category used for Maintenance & Installation should reflect the Service Category of the product or service being installed or maintained. As an example, if the service being installed is a Telecommunications Service, then the installation should also reflect that same category, Telecommunications Service.</p>		<p>451 452 459 460</p>
<p>Metropolitan Area Network (MAN)</p>	<p>Metropolitan Area Network (MAN) is a data network designed for a town or city. In terms of geographic breadth, MANs are larger than Local Area Networks (LANs) but smaller than Wide Area Networks (WANs). MANs are usually characterized by connections using fiber high-speed optic cable or other digital media. In terms of the "E-Rate" program, a MAN and WAN are considered the same</p> <p>The cost of purchasing MANs, as is the WAN, to provide Telecommunications Service is not eligible for support. However, schools and libraries are not precluded from receiving support for a metropolitan area network run over leased telephone lines because such an arrangement constitutes a Telecommunications Service.</p>	<p>Conditional</p>	<p>458</p> <p>Fourth Recon. Order 193 210</p>
<p>Per Diem</p>	<p>Per Diem is a dollar amount designated to a vendor for daily expenses such as lodging and food. It may or may not include travel time. It is eligible for funding if a contract with a vendor stipulates, or allows, for per diem. It is not eligible if it is not part of a contract or bid.</p>	<p>Conditional</p>	<p>450 451 459 460</p>
<p>Performance Bond</p>	<p>A Performance Bond is a bond, generally obtained by the vendor or contractor from a third party, that guarantees the terms of the contract or agreement are met. In the event of default or failure to meet the terms, the bond would be used to complete the contracted work.</p>	<p>No</p>	<p>459 460</p>
<p>Personnel Costs</p>	<p>Personnel costs for various eligible services incurred by an eligible entity are ineligible for discounts.</p>	<p>No</p>	<p>437</p>

Satellite Dishes	Satellite dishes are eligible as Internal Connections only if they are leased as part of Telecommunications Services, or leased as part of a Wireless Wide Area Network used to transmit access to the Internet. They are not an eligible component of Internal Connections if used as part of a Wide Area Network used for the transmission voice and data, or if purchased.	Conditional	562 624 748
Tape Drive Tapes	Magnetic tapes used to record and store database content from the tape drive. The tapes are expendable items that are not eligible for discount.	No	459 460
Taxes, Surcharges and Access Charges	All reasonable charges including federal taxes and state taxes that are incurred in obtaining eligible Telecommunications Services, Internet access and internal connections are eligible. Charges for termination liability, penalty surcharges and other charges not included in the cost of obtaining eligible services will not be supported.	Conditional	431 436 450
Teacher Training	Costs associated with teacher training are not eligible.	No	FCC Q&A Public Notice July 2, 1997
Travel Time	The cost of travel to and from a work site is eligible for discount so long as a contract with a vendor stipulates, or allows travel time. It is not eligible if it is not part of a contract or bid.	Conditional	450 451 459 460
Wide Area Network (WAN)	A WAN is a data communications network typically extending a LAN outside a building, over links to other LANs in remote buildings in other cities. Typically, the links are lines provided by common carriers such as the local telephone company or long distance carrier. The cost of purchasing, or building WANs to provide Telecommunications Services is not eligible for support. However, schools and libraries are not precluded from receiving support for a wide area network run over leased telephone lines because such an arrangement constitutes a Telecommunications Service. They may also receive support for WANs used for accessing the Internet if leased from a Telecommunications Service provider or a non-common carrier.	Conditional	458 Fourth Recon. Order 193 210