
Numerics

10BASE-T The 10-Mbps baseband Ethernet specification that uses two pairs of twisted-pair cabling (Category 3 or 5): one pair for transmitting data and the other for receiving data.

A

ADSL Asymmetric digital subscriber line. Technology that enables high-speed transmission over the “last mile” from the service provider to the customer site.

C

carrier detect Signal that indicates whether the ADSL line is active.

crossover Ethernet cable A cable that wires a pin to its opposite pin; for example, RX+ is wired to TX+. This cable connects two similar devices such as two data terminal equipment (DTE) or data communications equipment (DCE) devices.

D

DRAM Dynamic RAM. Dynamic RAM that stores information that must be refreshed periodically in capacitors.

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E

- EMI** Electromagnetic interference. The interference by electromagnetic signals that can cause reduced data integrity and increased error rates on transmission channels.
- ESD** Electrostatic discharge. A transfer of electrostatic charge between bodies of different electrostatic potentials, such as an operator and a piece of electrical equipment. ESD occurs when electronic components are improperly handled and can damage equipment and impair electrical circuitry. ESD is more likely to occur when both synthetic fibers and dry atmosphere are present.

F

- Flash memory** The nonvolatile storage that can be electrically erased and reprogrammed so that data can be stored, booted, and rewritten as necessary.

L

- link LNK** Front panel LED indicating that a physical connection between the router and an Ethernet device exists.

M

- MDI** Media-dependent interface. A port on an Ethernet network device used to connect the device to the Ethernet network, usually through a hub or switch.
- MDI-X** Media-dependent interface, crossover. A port on an Ethernet hub, such as the Cisco 1528 Micro Hub 10/100, that connects the Ethernet network devices through the MDI port to create a network.

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S

- SELV** Safety extra-low voltage. A secondary circuit that under normal conditions has a voltage less than 42.4V peak or 42 VDC. Under a single fault condition, this circuit should not exceed these values for longer than 0.2 seconds and should not exceed 71V peak or 120 VDC.
- straight-through Ethernet cable** A cable that wires a pin to its equivalent pin. This cable typically connects a router to a hub. A straight-through Ethernet cable is the type of cable most commonly used.
- straight-through Ethernet cable** A cable that wires a pin to its equivalent pin. This cable connects two dissimilar devices such as a data terminal equipment (DTE) and a data communications equipment (DCE) device. A straight-through Ethernet cable is the type of cable most commonly used.

T

- telephone cable** The cable used to connect a device to a telephone port.
- TNV** Telecommunications network voltage. A secondary circuit that, under normal operating conditions, carries telecommunication signals. Telecommunications signals are a steady-state, varying-amplitude, or intermittent voltage or current intended for use on a telecommunications network. A telecommunications network is considered a metallicly terminated circuit intended to carry telecommunication signals for voice, data, or other communication. These networks might be publicly or privately owned. They might be subjected to overvoltages due to atmospheric discharges or power-line failures.
- TO HUB/TO PC button** With this button, you can connect hubs, servers, PCs, and workstations using the yellow Ethernet (straight-through) cable, instead of using a crossover Ethernet cable, which you must supply. This button identifies the device that you connect to the router Ethernet port using the yellow Ethernet cable. Setting the button TO HUB (in position) makes it possible for you to connect the router to a hub. Setting the button TO PC (out position) makes it possible for you to connect to a server, PC, or workstation.

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