

# COMPUTER NETWORKING CHEAT SHEET

Layer	THE OSI MODEL Description	Device	Implementations and Protocols
Application (7)	Provides services directly to user applications. Identifies communication partners, identifies quality of service, considers user authentication and privacy, and determines if adequate resources are present.	Gateway	SMB, HTTP, SMTP, FTP, SNMP, Telnet, AppleTalk
Presentation (6)	Performs data transformations and services including formatting, compression, and encryption services to provide a common interface for user applications.	Gateway and Redirectors	HTTP, FTP, Telnet, SMTP, AFP, TDI
Session (5)	Establishes, manages and terminates connections between applications at each end. Allows 2 applications to communicate over a network by opening a session and synchronizing the involved computers.	Gateway	NetBEUI, TCP, UDP, SPX
Transport (4)	Provides transparent transfer of data between end systems by insulating layers 5-7 from complexities of layers 1-3. Responsible for end-to-end error recovery and flow control and ensures complete data transfer.	Gateway	IP, IPX, NWLink, NetBEUI
Network (3)	Establishes, maintains, and terminates network connections. Handles traffic management including addressing, routing, switching, forwarding, logical paths and virtual circuits, error handling, congestion control and packet sequencing.	Router and Brouter	IP, IPX, NWLink, NetBEUI
Data Link (2)	Divided into two sub-layers: The Media Access Control (MAC) sub-layer controls how a networked computer gains access to the data and permission to transmit it. The Logical Link Control (LLC) sub-layer controls frame synchronization, flow control and error checking.	Switch, Bridge and Router	Ethernet, PPP, HDLC
Physical (1)	Controls transmission of the bit stream data over the physical medium. Standards for this layer address transmission at the electrical and mechanical level including signal voltage swing, voltage duration, etc.	Multiplexer and Repeater	Ethernet, Token Ring, FDDI

## Type: 10Base5 (Coaxial)

Models: RG-8, RG-11, Thicknet Coax  
Speed: 10 Mbps  
Connector: BNC/TNC  
Max Length: 500 meters (1,640 ft.)

## Type: 10Base2 (Coaxial)

Models: RG-18, Thinnet Coax  
Speed: 10 Mbps  
Connector: BNC  
Max Length: 185 meters (607 ft.)

The 5-4-3 Rule states that a 10Base2 network can have 3 cable segments connected with 4 repeaters but only 2 of the segments can be occupied by computers with a maximum of 30 computers per segment. Thinner cables are 0.5 inches thick and have a 50 ohm impedance. Thinner cables are 0.25 inches thick and have a 10 ohm impedance.

Thinner is often used as a backbone. A transceiver with a vampire tap penetrates the core of the cable. From the transceiver a DB-15 connector plugs into the AUI port on a given device.

## CABLE TYPES Coaxial Cable



## Type: 10BaseT (Twisted Pair) Twisted-Pair Cabling (10 Base-T)

Models: Cat 3, 4, 5  
Twisted Pair  
Speed: 10 - 100 Mbps  
Connector: RJ-45  
Max Length: 100 meters (328 ft.)

## Type: 10BaseF (Fiber Optic)

Models: Cat 5, Twisted Pair  
Speed: 100 Mbps  
Connector: RJ-45  
Max Length: 100 meters (328 ft.)

Shielded Twisted Pair (STP) differs from Unshielded Twisted Pair (UTP) in that it has a foil jacket that helps prevent crosstalk. Crosstalk is interference from an adjacent wire. Plenum grade cabling is required when running cable in plenum spaces. The plenum is the space between building floors that is used for air circulation in heating and air conditioning systems, typically between the structural ceiling and the suspended ceiling or under a raised floor. Plenum grade cable is resistant to fire and does not emit poisonous gases when burned.



## Type: 10BaseFL (Fiber Optic)

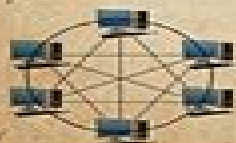
Models: Fiber Optic  
Speed: 100 - 1,000 Mbps  
Connector: Fiber Optic  
Max Length: 2 Kilometers (1,248 ft.)

## Fiber-Optic Cable



Fiber-Optic cabling has built-in security. Unlike other cable mediums, the dielectric nature of optical fiber makes it impossible to remotely detect the signal being transmitted within the cable. The only way to detect fiber signal is by intercepting the optical fiber itself which is easily detectable by security surveillance.

## NETWORK TOPOLOGIES



Fully Connected Network Topology



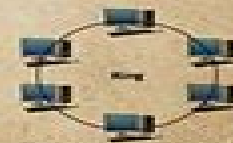
Star Network Topology



Mesh Network Topology



Common Bus Topology



Ring Network Topology

# Computer Networking Cheat Sheet

**Doug Lowe**



## **Computer Networking Cheat Sheet:**

## Reviewing **Computer Networking Cheat Sheet**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Computer Networking Cheat Sheet**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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