

Unit

Data Transmission Mode

→ Data Transmission mode refers to the way in which data is transmitted/received in a system.

(i) Simplex Mode :- The communication is unidirectional as a one-way street, one device always send, other can always receive.

Eg :- Radio, mouse.

Note :- The simplex mode can use the entire capacity of the channel to send data in one direction.

(ii) Half Duplex :- Each device/station can transmit and receive, but not at the same time.
→ when one device is sending, the other can only receive, and vice versa.

Eg: walkie-talkies are both - half duplex systems.

Note :- In a half-duplex transmission, the entire capacity of a channel is taken over by either one of the two devices is transmitting at that time.

(iii) Full Duplex :- Both devices can transmit & receive at the same time. Actually it is two half duplex connections.

Eg :- Telephone network.

Note :- The capacity of the channel must be divided b/w the 2 directions.