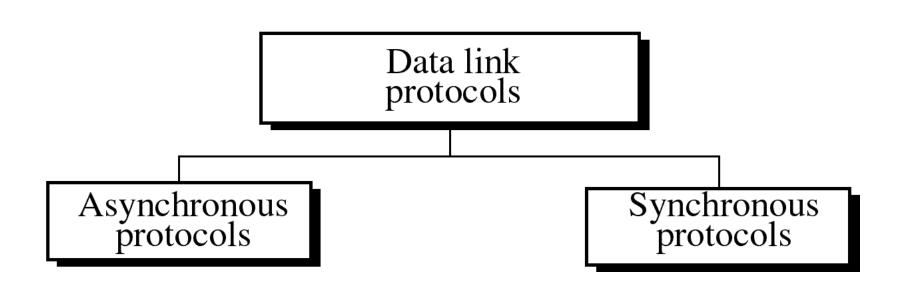
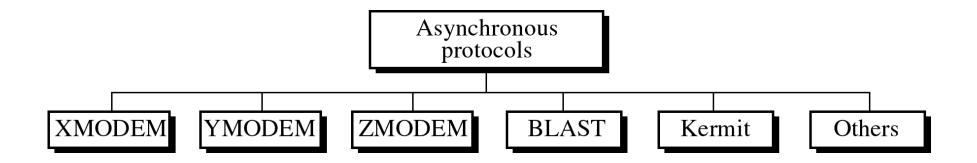
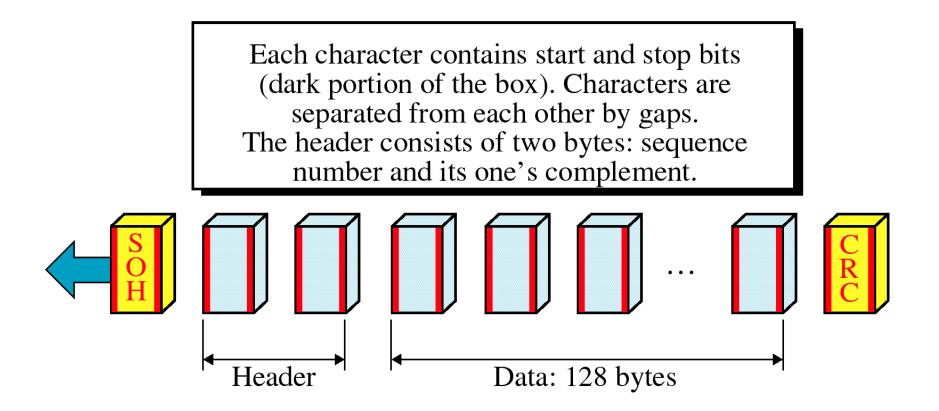
Data Link Protocols

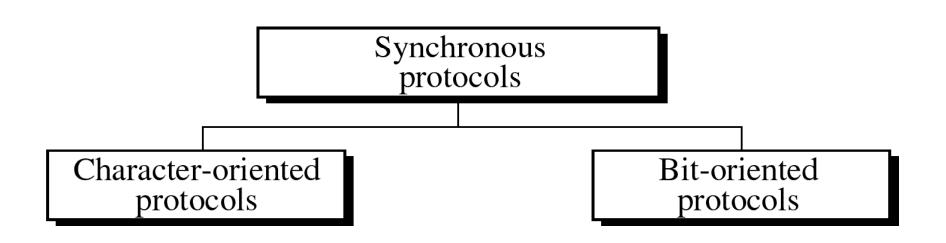
- Asynchronous Protocols
- Synchronous Protocols
- Character-Oriented Protocols
- Bit-Oriented Protocols

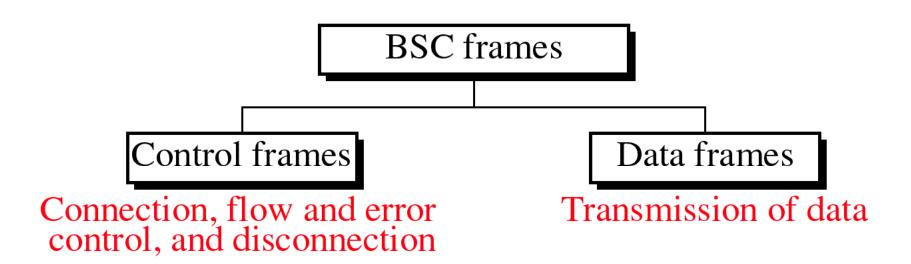




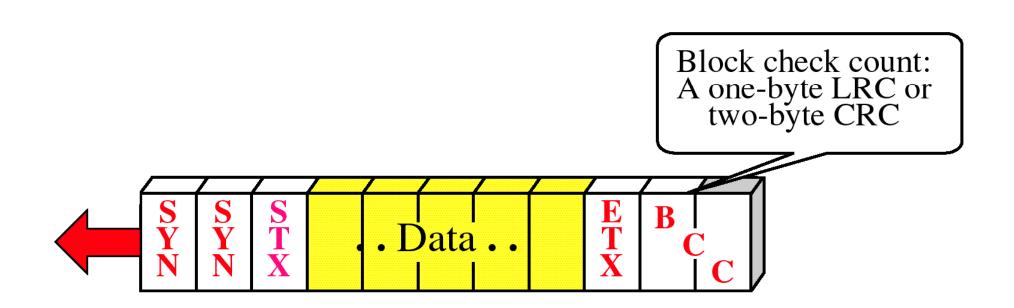
XMODEM



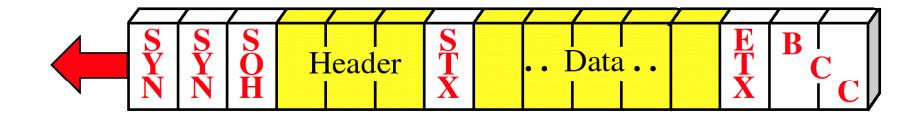




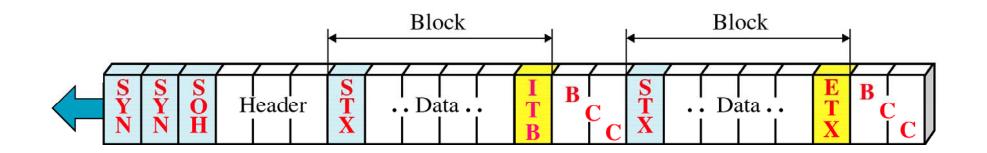
Simple Frame



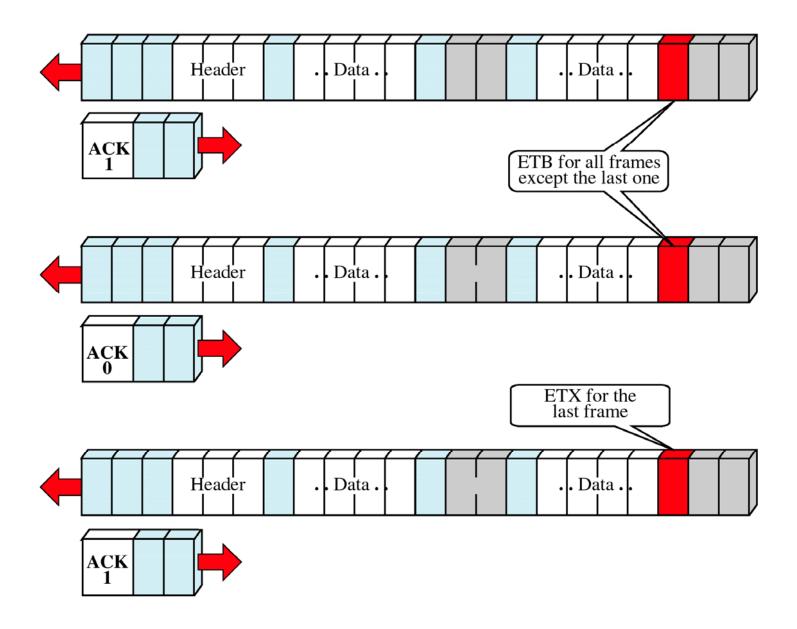
A Frame with Header



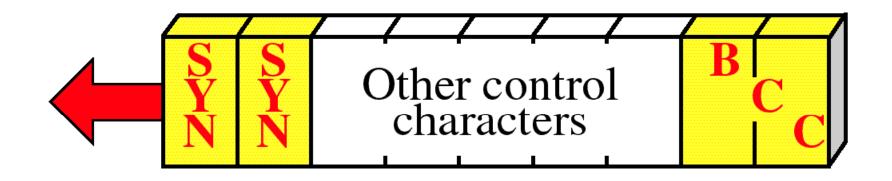
Multiblock Frame



Multiframe Transmission

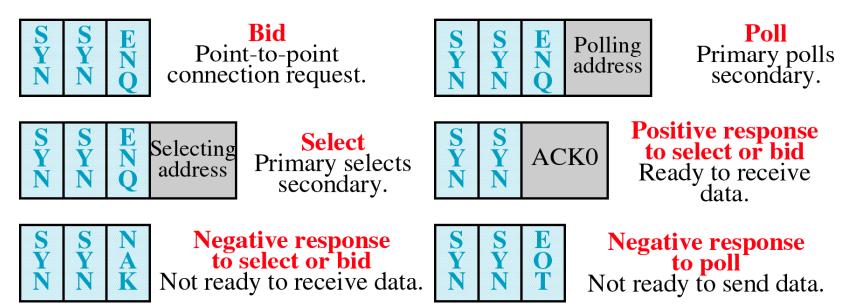


Control Frame



Control Frames

Connection establishment



Control Frames

Flow and error control

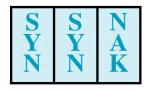


Positive ACK of even frames Frame number 0 received.



Positive ACK of odd frames Frame number 1 received.

Wait & ACK



Negative ACK of frames Error in the frame received.



S
Y
NS
Y
NRV1

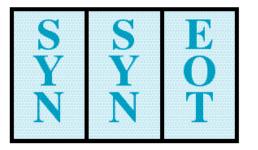
Reverse interrupt Request for interruption, urgent data to send.



ACK of previous frame, not ready to receive more. Temporary dela

Temporary delay Temporarily delayed but does not relinquish the line. **Control Frames**

Connection termination



S
Y
NE
O
TEnd of transmissionStation finished sending data.

