Lecture 3

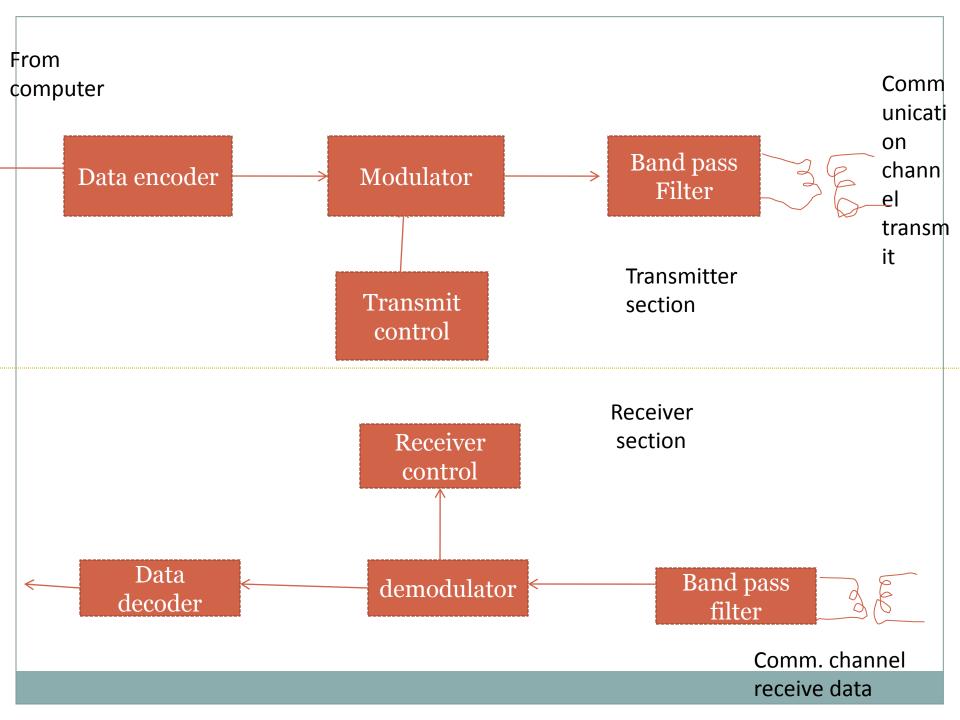
PRINCIPLES OF SATELLITE COMMUNICATION

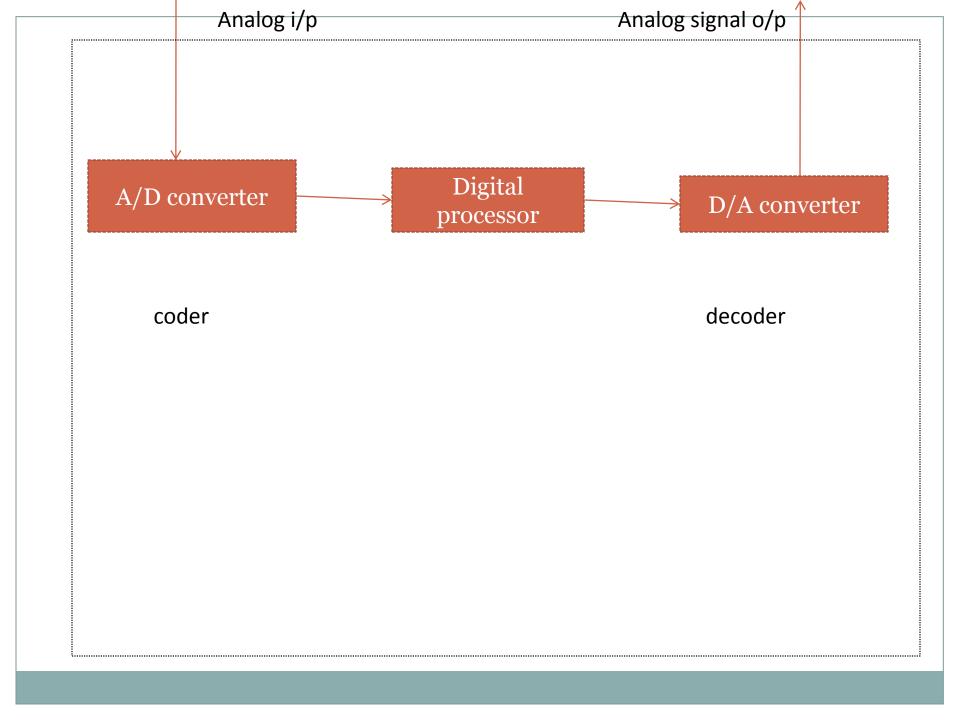
Modem and Codec

- Modem:
- ➤ Modulator &Demodulator
- Interface between analog and digital system
- > Imp. role in computer comm & ISDN system
- Codec:
- Coding & Decoding
- Digital television systems

Active and Passive Satellite

- Passive Reflector (spherical balloon)
- Source of Energy





Applications

- Fixed satellite communication system
- Broadcast satellite communication system
- Land mobile communication system
- Satellite internet access system
- Maritime satellite communication system
- Aeronautical satellite communication system

Services offered

Voice services

- telephony
- Audio broadcasting
- Voice conferencing
- Video and image services
 - Facsimile
 - Graphics
 - HDVT
 - Broad cast quality video

Services

Data services

- □ Electronic mail
- Data base access
- □ File transfer
- Remote data monitoring
- □ Electronic fund transfer
- □ Short message transfer