

## Communication satellite

An artificial satellite revolving in a circular orbit round the earth in the equatorial plane, in the same sense of rotation of the earth and having same period of revolution as the period of rotation of the earth (i.e. 1 day = 24 hours = 86400 seconds) is called geostationary satellite.

As relative velocity of the satellite with respect to the earth is zero, it appears stationary from the earth surface. Therefore, it is known as geostationary satellite. It is mainly used for communication purposes.

so it is called communication satellite.

## Advantages of satellite communication

- (1) point to multipoint communication easily.
- (2) As compare to fiber cable the satellite communication easily transmit and received.
- (3) Mobile communication can easily achieved by satellite communication.

## Disadvantages of satellite communication

- ① A for satellite communication not working properly due to bad weather condition
- ② Over-crowding of available bandwidth due to low antenna gain.
- ③ satellite communication having 75,000 km range.