**GPS MODEM:**

The GPS smart receiver features the 16 channels .Ultra low power GPSarchitecture. This completeenabled GPS receiver provides high position, velocity and time accuracy performances as well ashigh sensitivity and tracking capabilities.

A GPS tracker essentially contains GPS module to receive the GPS signal and calculate the coordinates. For data loggers it contains large memory to store the coordinates, data pushers additionally contains the GSM/GPRS modem to transmit this information to a central computer either via SMS or via GPRS in form of IP packets. The diagram depicts a hardware architecture of an advanced GPS tracker.

A **GPS tracking** unit is a device that uses the Global Positioning System to determine the precise location of a vehicle, person, or other asset to which it is attached and to record the position of the asset at regular intervals. The recorded location data can be stored within the tracking unit, or it may be transmitted to a central location data base, or internet-connected computer, using a cellular (GPRS or SMS), radio, or satellite modem embedded in the unit. This allows the asset's location to be displayed against a map backdrop either in real time or when analysing the track later, using GPS tracking software (e,g, Telematics 2.0).

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Benefits-

Ultra low power consumption

Easy and fast to install

Superior urban canyon performance

Low cost with high performance