

Widaq-GPS

Wifi Based Sensor Node for DI, GPS

Widaq is a WiFi based Wireless Sensor Node for monitoring DI, AI and GPS data. It can be used in open areas for tracking vehicles or other mobile assets using GPS and transferring data over Wifi to local/public servers.

Data is transmitted thru TCP/IP to the Static IP & port of a server. Device is compatible with standard Cloud hosted Vehicle Tracking Software, Wialon. Wialon tracks the vehicles on the map and provides information on route history, km travelled, stoppage time etc..

Device is rugged and is suitable for factory area and ports etc. In case Wifi Signal strength is not available in certain areas, device would log the data alongwith time stamp and forward it to server when Wifi is available.



Specifications :

- 802.11 b/g/n, WiFi 2.4 GHz, support WPA/WPA2
- Integrated low power 32-bit MCU
- Store & Forward facility when Network absent
- GPS based Real Time Clock
- 1 x Analog Input 12 bit ADC (4-20 mA)
- 4 x Digital Input (optoisolated 10-30 VDC)
- GPS receiver, Antenna inbuilt
- Power : 10-30 VDC thru IP65 Gland
- IP65 gland for I/O connection.
- Enclosure : IP65 ABS Wall Mounting enclosure
- Protocol : TCP/IP Push protocol on change event for Digital Input alongwith Analog Value & GPS polled.

Applications :

- Vehicle Tracking of mobile assets in private open areas covered in Wifi like factories, ports, mines etc

GPS Specs :

❖ Receiver type 56 Channels

❖ Time-To-First-Fix1

- Cold Start 29 s
- Warm Start 28 s
- Hot Start 1 s
- Aided Starts 5 s

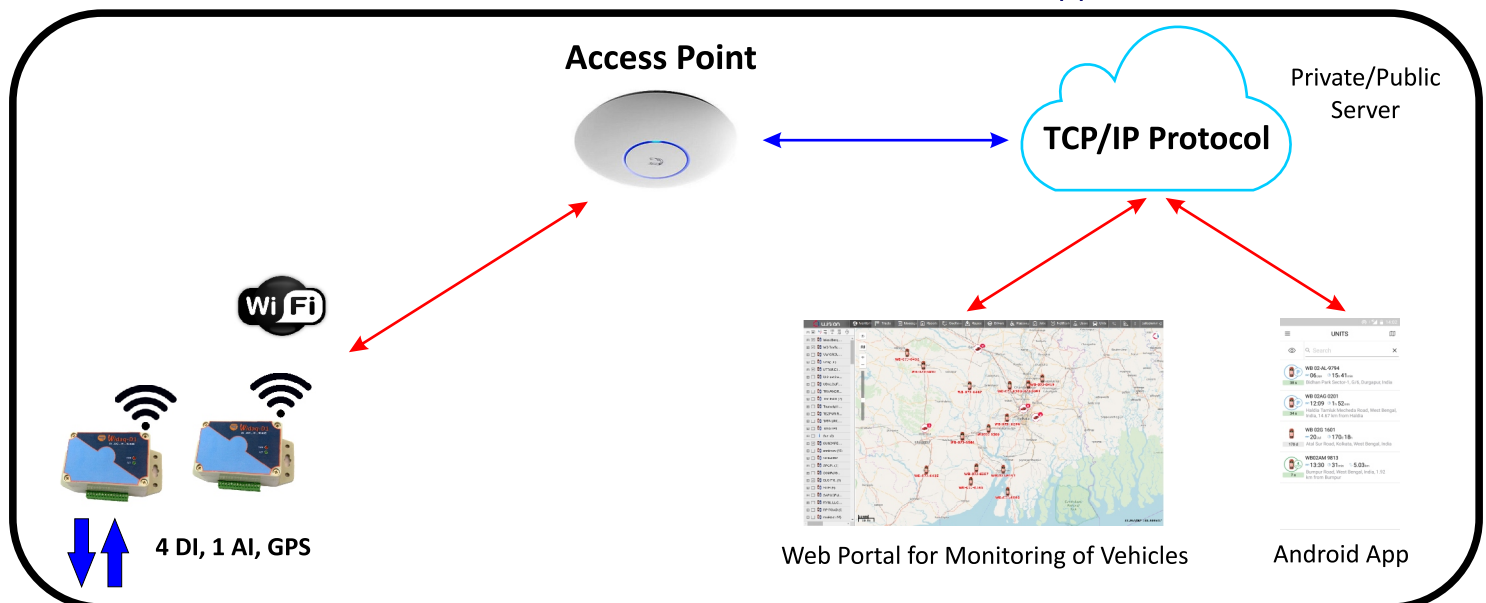
❖ Sensitivity

- Tracking & Navigation -161 dBm
- Reacquisition -159 dBm
- Cold Start -147 dBm
- Warm Start -147 dBm
- Hot Start -155 dBm

❖ Horizontal position accuracy

- Autonomous 2.5 m
- SBAS 2.0 m
- Max navigation 10 Hz
- update rate 10 Hz
- Velocity accuracy 0.1 m/s
- Heading accuracy 0.5 degrees

Application Schematic



Ordering Info:-

1. Widaq-GPS : Wifi based IOT device with 1 x Analog Input, 4 x Digital Input, GPS receiver with internal Antenna



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