

## WiFi DataLogger

- The WiFi Datalogger is a powerful and cost effective wireless unit. The WiFi DataLogger has a built-in Global Positioning System (GPS) that stamps collected data with time, location and speed. No monthly subscription needed thanks for the WiFi technology. Remote server will automatically receive collected data from assigned vehicles equipped with WiFi DataLoggers when they enter its coverage area, no need for human intervention to transfer data.

## WiFi DataLogger Features

- The Wireless DataLogger (WiFi DataLogger) unit is a unique idea for vehicle tracking and operational data collection.
- The unit operates as a passive (without any service provider "ISP") wireless data collection and Automatic Vehicle Location (AVL) unit
- The unit is designed to read, store, and transfer operations captured data from most popular types of controllers such as Epoke, CompuSpread, Dickey-John and Schmidt Stratos.
- The unit is enclosed in a rugged aluminum box.
- The unit is capable of:
  - tracking changes of eight digital inputs (e.g. plow movement, truck doors...etc.).
  - collecting data from a secondary serial data input (e.g. temperature sensor...etc.).
  - storing huge amounts of data within its non-volatile memory (up to 1.0 GBytes),
- The unit provides secure and reliable data transfer via a local wireless network and/or the internet to the remote server.
- The WiFi DataLogger is designed to work with any GIS software that interpret NMEA-0183 GPS standard data format (i.e Google Maps).
- The GPS stamps each collected stream of data with time, location, and speed, even when no data is available the DataLogger will continue to capture GPS information.
- The unit automatically establishes a connection with its access point when it is within the WiFi access point network coverage area.
- The unit does not need any human intervention to transfer data.
- The remote server will automatically receive collected data from many assigned vehicles equipped with WiFi DataLoggers when they enter its coverage area.
- Seamless Roaming allowing vehicles to travel between multiple Access Points without losing their network connection.
- Roll-over Data logging feature, High RF Output power, Firmware Upgrade via Air.

# WiFi DataLogger Specifications

Processor & Operating System	Interface Ports
<ul style="list-style-type: none"> <li>29.4MHz Microcontroller</li> </ul>	<ul style="list-style-type: none"> <li>Primary UART serial input..</li> <li>Secondary UART serial input.</li> <li>Eight Digital Inputs.</li> </ul>
Memory	GPS Receiver
<ul style="list-style-type: none"> <li>512 Kbytes Flash</li> <li>512 Kbytes SRAM</li> <li>Up to 1 GB storage memory (256 MBytes default)</li> </ul>	<ul style="list-style-type: none"> <li>Twelve channels.</li> <li>Accuracy of <math>\pm 3</math> meters</li> <li>Hot/Warm/Cold Start Time: 10/38/50 Seconds</li> </ul>
Power	Physical Specification
<ul style="list-style-type: none"> <li>Operating Voltage: 9V <math>\rightarrow</math> 28 VDC</li> <li>Current Consumption:                             <ul style="list-style-type: none"> <li>nominal 330mA@12V</li> <li>max 500mA@12V (during tx burst)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Dimension: 165mm x 143mm x 57mm</li> <li>Weight: 500g</li> <li>Casing: Aluminum</li> </ul>
Indicators	Environmental Specifications
<ul style="list-style-type: none"> <li>1 x Red LED indicate Network activity.</li> <li>1 x Green LED indicate activity with server.</li> <li>1 x Green LED indicate activity on Ports.</li> </ul>	<ul style="list-style-type: none"> <li>Operating temperature: -20°C to +50°C</li> <li>Storage temperature: -40°C to +85°C</li> <li>Relative Humidity: TBD</li> </ul>

