# GPSI-5000 - FAQ



Link: https://help.wextelematics.com/troubleshooting/gpsi-5000-faq/ Last Updated: July 7th, 2020

Questions about the GPSI-5000? Check out the below.

## GPSI-5000 Frequently Asked Questions

| Question | Answer |
|---|---|
| Does the device require an external antenna to be connected and installed? | No, the device is equipped with an internal antenna that is powerful enough to receive/send GPS and cellular data within 99.9% of all vehicle installations. |
| Is there a backup battery for the device? If so, what is the estimated life of the battery? | Yes, it includes a backup battery with a limited lifespan of approximately 3 hours. |
| What type of data does the device collect and send to the software solution? | **Default configurations include location and data* updates when the following occurs:**<br>• Ignition On/Off with reporting every 2 minutes while Ign On<br>• Motion Start/Stop with reporting every 2 minutes while in motion<br>• Every 12 hours while Ign Off<br>• When the vehicle's battery voltage is below 11.8V<br>• When the device is disconnected from power<br>• When the device's internal battery is critically low<br><br>***data reported can include the following:**<br>• Max speed, instantaneous speed, miles driven, GPS odometer, external battery voltage, and GPS acceleration and deceleration<br><br>**Diagnostic configurations include the above, plus:**<br>• When the device records a hard accelerometer event (e.g. rapid acceleration, harsh braking, hard right or left turn) while Ign On.<br>• Data: vehicle speed, engine speed (RPMs), ECU odometer, and various ECU data if provided |
| Does the device collect diagnostics? If so, provide a list of available diagnostics. | The default configuration includes heavy duty or light duty diagnostics dependent on the vehicle and diagnostic cable installed.<br><br>**Diagnostic values can include:**<br>• Vehicle speed, engine speed, odometer, fuel level remaining, engine coolant temp, calculated trip odometer, calculated fuel usage, DTC count, VIN |
| Are there different diagnostic cables required? | Yes. The GPSI-5000 carries a variety of different cables, with one cable supplying all light duty vehicle installations and multiple cables to support heavy duty vehicle installations (Square, Threaded, Hino, Volvo/Mack, and RP1226). |

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| Question | Answer |
|---|---|
| How is the device installed? What installation steps are taken to conceal the device or prevent tampering? | The customer has the option of installing the device 3 ways, all detailed within our installation guide:<br><br>• Hardwire the device using constant, power, and switched wiring for basic track & trace reporting using the default configuration<br><br>• Plug the device directly into the diagnostic port utilizing a diagnostic cable connector between the port and the device<br><br>• Utilize a pass-thru cable that allows the diagnostic port to remain open to third-party devices and allows for the concealment and tamper prevention of the device<br><br>• *No matter the method of installation it is highly recommended that the constant (red), switched (white), and ground (black) wires be hardwired so as to ensure accurate GPS reporting in case of diagnostic failure.* |
| Is the wiring harness similar to the GPSI-3900/GPSI-4000 wiring harnesses in terms of color-coding? | No, the GPSI-5000 utilizes a different color-coding for its wiring harness. Refer to the device install guide for pinout information. |
| What carriers are supported for the device? | **AT&T 4G/LTE with 3G fallback** = GPSI-5000AB<br>• Coverage includes North America (USA, Canada, & Mexico)<br><br>**Verizon 4G/LTE** = GPSI-5000LB<br>• Coverage includes USA & Canada |
| Does the device support accessory features? | Yes, the device and default configuration supports the following accessory features:<br><br>• Driver ID (not compatible with Temp Sensor)<br><br>• Temperature Sensor (not compatible with Driver ID)<br><br>• ELD Connect<br><br>• ELD Mobile<br><br>• Remote Panic |
| Does the GPSI-5000 have an internal buzzer for Driver ID, Remote Panic, or other buzzer-related features, and what's the difference if I want an external buzzer? | The GPSI-5000 is equipped with an internal buzzer that has an audible output of 85 decibels (10cm distance), and is fully capable of supporting buzzer-related reporting without an external buzzer. If an external buzzer is required/requested, our external buzzer has an audible output of >95 decibels (10cm distance) and may come with an increased cost.<br><br>For reference on decibel levels click here. |

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| Can specific data collected by the device (e.g., DTCs) be prioritized over other types of data collected by the device in case of low connection? | No, not at this time.<br><br>In the instance where the device is unable to connect or maintains low cellular connectivity, the device will store all data and send once connection strength has been restored. |
| How many points are stored by the device in case cellular/satellite connection is lost? | 20,000 |
| Is there an option for switching from cellular to satellite-based on connectivity availability?<br>For example, If a device operating on cellular connectivity enters an area where cellular is unavailable, will the device automatically switch to operating on satellite connectivity to keep data transmitting in real-time? | No, there's currently no similar option for this device type. |
| Is it IP rated? | No |
| What is the average power draw? | – With ignition on and device actively reporting = ~260mA<br>– With ignition off, device awake = ~75-80mA<br>– With ignition off, device GPS asleep* = ~40-50mA<br><br>*Sleep occurs 5 minutes after ignition off, and after each heartbeat |

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