



A Weldon Link₂ module shall be provided. It shall consist of a J1939 enabled hardware device connected into the chassis J1939 Controller Area Network (CAN) data bus. The device shall monitor J1939 CAN data transmitted over the data bus and write the data to non-volatile memory. Collected data shall be wirelessly uploaded to secure remote servers via the customer's configured Wi-Fi 802.11 a/b/g/n network access point. The **device shall** be configured to monitor CAN messages broadcast over the apparatus J1939 CAN data link and be capable of capturing and transmitting at a minimum the following data parameters:

- **Engine/PTO/Aerial/Generator Hours**
- **Mileage**
- **Engine diagnostic Codes (CEL/SEL)**
- **ABS diagnostic codes**
- **Transmission diagnostic codes**
- **Run Status**
- **Emergency Warning Status**
- **Interlock Status**
- **Low Voltage**
- **Park and Service Brake actuation**
- **Event Fuel Consumption (Gallons per hour)**
- **Tank level status**
- **Other data as deemed available by the OEM**
- **Custom defined parameters**

The Link₂ hardware device shall consist of an industry proven Deutsch IP6# sealed enclosure with corresponding dual Deutsch harness connectors. The device shall include provisions for an active antenna output that will allow for an antenna to be routed to the roof. The device shall include diagnostic LEDs providing a visual indication of the module's operational readiness (power, communication) and status of WiFi 802.11 a/b/g/n network connectivity. The module settings and wireless connections shall be configured by connecting a USB cable to the device.

The Link₂ device shall upload data that is accessible through the Weldon Link₂ online dashboard, accessed at link2dashboard.com.

The apparatus OEM shall be responsible for ensuring the above data elements are accessible to be recorded by the Link₂. The device shall also be capable of recording non-CAN functions through a series of analog, digital and frequency inputs on the device. The OEM or installer shall be responsible for determining if a particular data parameter shall be accessed via the J1939 CAN or provisioned via available hardware input circuits.

The device shall incorporate a twenty (20) year rated lithium battery to maintain real-time clock functions. The Link₂ shall have a connection to constant battery voltage necessary to perform operational transmit and receive functions for a period of time after the apparatus is powered down.