Linkedloops CANFD based Data-Logger

The CANFD based Data-Logger by Linkedloops Intelligence is an in-vehicle data logger tailored for engineering and diagnostics. Designed as a rugged, feature-rich device, CANFD based Data-Logger supports advanced data acquisition for vehicle fleet monitoring and network data logging applications. This indigenous Indian solution offers reliable performance in extreme conditions, with capabilities to log data without frame loss, conduct remote diagnostics, and perform wireless data transfers. Integrated with Linkedloops MTS, CANFD based Data-Logger enables remote device management, data analytics, and real-time monitoring.

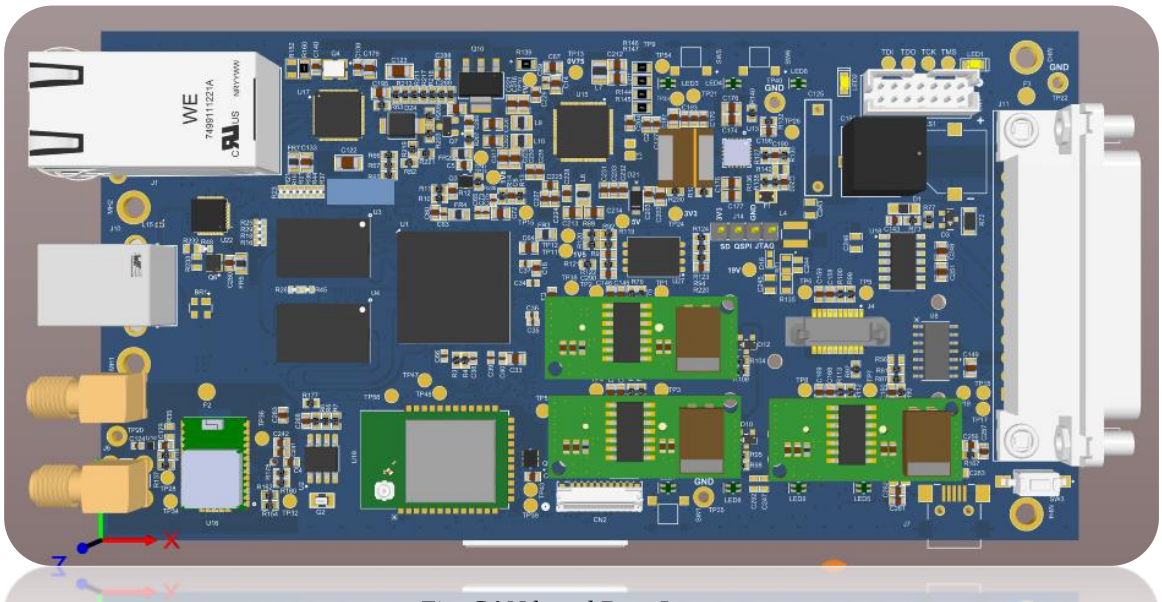

Fig: CAN based Data-Logger

TECHNICAL FEATURES :

- ***Channels and Interfaces:*** 4 CAN / CAN-FD channels, DoIP (Diagnostic over IP), Gigabit Ethernet, USB 2.0, Wi-Fi, and GPS.
- ***Storage:*** Micro SD storage options (32 to 128 GB).
- ***Precision and Reliability:*** <50 ns timestamp accuracy, IP66 ruggedness rating, and no frame loss capability.
- ***Remote Diagnostics and Configurations****:* Wireless data transfer and configuration, supported by a dedicated wireless server.
- ***Scripting and Trigger Functions:*** Onboard scripting with start/stop triggers, error-based conditions, and logging options.
- ***Input/Output (I/O):*** 2 analog inputs, 1 digital input, and 1 digital output.
- ***Power:*** 6 - 36V DC input range, power consumption under 5W, with sleep/wake on CANFD capabilities.
- ***Environmental Specifications:*** Operating temperature range of -40°C to 85°C.

ADVANTAGES :

- ***Multi-Channel Precision*****:** 4 CAN / CAN-FD channels with <50 ns accuracy.
- ***Remote Data Access*****:** Wireless data transfer and diagnostics.
- ***Rugged Design:*** Emphasize the IP66 rating for reliability in harsh environments.
- ***Seamless Ecosystem Integration:*** Showcase how CAN based Data-Logger works with MTS for an end-to-end data management and analytics solution.
- ***User-Friendly Desktop Utility*****:** Feature the easy setup and troubleshooting desktop interface.
- ***Broad Compatibility:*** Note support for OBD-II SAE J1979, J1939, and its applicability across different vehicle classes.
- ***Power Efficiency and Low Maintenance:*** Highlight sleep/wake on CANFD and efficient power usage.
- ***Future-Ready:*** Expandable I/O and firmware upgradability.

APPLICATIONS :

- ***Vehicle Diagnostics and Fleet Testing:*** OEM diagnostics and supports live network monitoring, ideal for fleet data acquisition and diagnostics.
- ***Bench Testing and Software Validation:*** Bench test harnesses and scripting functions enable use in ECU (Electronic Control Unit) testing and SW validation environments.
- ***Remote Data Acquisition and Monitoring*****:** Integrates with MTS for secure remote monitoring and configurations, making it suitable for vehicle and fleet data sourcing.
- ***Real-time Analytics and Reporting:*** The CAN based Data-Logger provides an ecosystem for data processing and insights generation, crucial for engineering and operational decision-making.

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