

## In-Vehicle Network Interface & Standalone Data Logger:

- 4 x CAN / CAN-FD Channels
- Edge Processing
- Wireless Data Transfers / Configurations
- Pass-thru Interfacing via J2534



**Rugged**



**No Frame Loss**



**Remote Data Logging**



**with Analytics Pipelines**





**Ready to elevate your vehicle network data acquisition game?**

**SierraDT** is the answer. Discover simplicity, precision, and value in a single device.

Rugged

IP66



No Frame Loss



Remote Diagnostics



Analytics Pipeline



## Overview:

SierraDT by DriveTech Intelligence, is a fully Indian, indigenous in-vehicle data logging device, for engineering applications.

Most feature packed in its class, SierraDT offers unmatched value with 4 CAN/CAN-FD channels, Edge Processing, Remote Diagnostics, GbE, USB, Wi-Fi & GPS.

SierraDT's rugged build and 'No Frame Loss' capabilities ensure accurate and reliable data logging in the most extreme conditions.

Further, SierraDT also comes integrated with a dedicated wireless server for remote configurations, data transfers and diagnostics, along with a seamless analytics pipeline and a user-friendly Desktop Utility for quick configurations & troubleshooting.

SierraDT forms a part of an entire ecosystem of solutions from DriveTech Intelligence, providing seamless vehicle to dashboard data sourcing and analytics.

# Application Areas:



Proto. Vehicle  
Validations



Wireless DAQ  
& Diagnostics



Live Network  
Monitoring

## J2534

J2534 Pass-through  
Interface



ECU Bench  
Testing

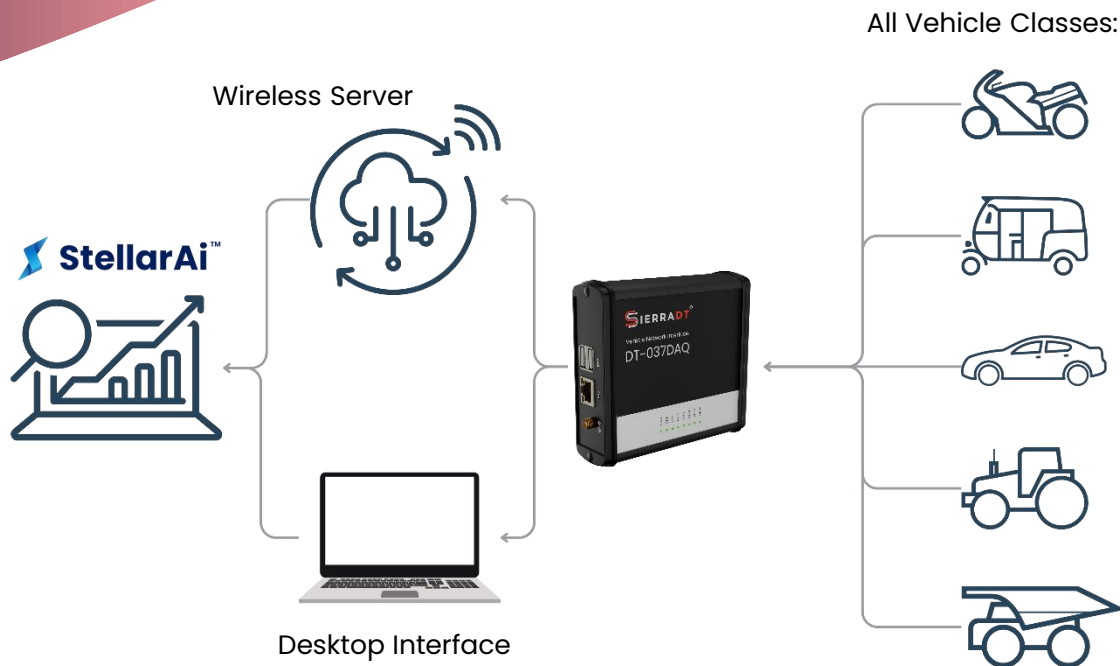


Fleet Testing &  
DAQ



SW Testing &  
Validations

## Integrated Data Pipeline:



SierraDT integrates seamlessly with DriveTech's StellarAi software suite, for remote data sourcing and advanced analytics. Real time data telemetry between SierraDT and StellarAi, and automated analytics capabilities, empower Users with live dashboarding and reports, eliminating manual data processing.

SierraDT is also built to perform analysis on incoming vehicle data on the edge level itself; further reducing the latency between data acquisition and data analysis. Edge processing also helps Users reduce the data volumes, optimize server loads and capture vehicle events with ease.

# Features:

FPGA Architecture



Edge Processing



4 Channels

**CAN**  
**CAN-FD**



Analog & Digital I/O



Micro SD Storage:  
32 to 128 GB

**J2534** Pass-thru Support



USB 2.0  
Interface



Rugged  
(IP 66)



Remote  
Diagnostics



Internal Clock



Sleep / Wake on CAN



Scripting & Trigger  
Functions



< 50 ns Timestamp Accuracy



WiFi & GPS Capabilities

# Technical Specifications:

Description	Specifications
Operating System	Embedded
Storage Medium	SD Card
Storage Specifications	32 - 128 GB
Voltage Supply	6 - 36 V DC
Power Consumption	< 5 W
Temp Range	-40 ° C to 85 ° C
IP Rating	IP 66
On Board Scripting	Yes
On Board Math Logic & Operations	Start & Stop Trigger   Error-based conditions   Logging
Wake Up ON CAN	Yes
No Message Lost	Yes
Ethernet Interface	Gigabit Ethernet
CAN   CAN FD Channels	4
GPS	10 Hz GPS
J1939	Yes
OBD-II SAE J1979	Yes
Wi Fi	2.4 GHz (Wi Fi 802.11 b/g/n)
OTA Configuration Upload	Yes
USB Configuration Flash	Yes
Standalone Trace	Yes
J2534 Pass thru Support	Yes   Ideal for Automaker's VCI (Vehicle Connection Interface)
Inputs & Outputs (IO's)	Analog input : 2 , Digital input : 1, Digital Output: 1

# DB26 Pinout:

Pin No	Pin Name	Pin Description
1	CANH_2	CAN Channel 2, High
2	CANL_2	CAN Channel 2, Low
3	CANH_4	CAN Channel 4, High
4	CANL_4	CAN Channel 4, Low
5	CANL_3	CAN Channel 3, Low
6	CANH_3	CAN Channel 3, High
7	DI2_IN	Digital Input 2
8	DI_GND	Digital Input Ground
9	DO1	Digital Output 1
10	CANL_1	CAN Channel 1, Low
11	CANH_1	CAN Channel 1, High
12	SUPPLY_DO	Digital Output Supply
13	SUPPLY_DO	Digital Output Supply
14	DI1_IN	Digital Input 1
15	DI_GND	Digital Input Ground
16	DO_GND	Digital Output Ground
17	DO_GND	Digital Output Ground
18	DO2	Digital Output
19	VIN	Input Power
20	VIN	Input Power
21	INPUT_GND	Input Ground
22	INPUT_GND	Input Ground
23	AI_2	Analog Input 2
24	AI_2_GND	Analog Input 2 Ground
25	AI_1	Analog Input 1
26	AI_1_GND	Analog Input 1 Ground



## Offering Packages:

Base Device Purchase (One Time)	:	SierraDT Device with WiFi & GPS Antennae PC Utility SierraDT Vehicle / Bench Harness sFTP / S3 Compatibility
<hr/>		
Wireless License (Annually Recurring)	:	Connectivity to StellarAi Data Platform Remote Configurations & Live Data Analytics
<hr/>		
Edge License (Annually Recurring)	:	Ability to deploy scripts to device level Remote script configurations & data fetch

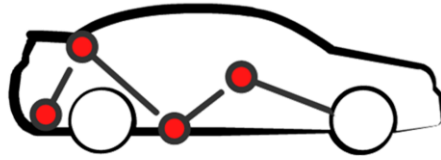
### Bench Harness

- 1 x Device Side DB26 Female Connector
- 1 x Device Side Hand-held Trigger Button
- 1 x Device Side USB Internet Dongle
- 1 x Device Side Banana Test Lead - Red
- 1 x Device Side Banana Test Lead - Black
- 1 x Device Side Banana Test Lead - Yellow
- 4 x Bench Side DB9 Female Connectors

### Vehicle Harness

- 1 x Device Side DB26 Female Connector
- 1 x Device Side Hand-held Trigger Button
- 1 x Device Side USB Internet Dongle
- 1 x Vehicle Side OBD Male Connector





# DriveTech<sup>®</sup>

## INTELLIGENCE

*Making Sense of Data...*

Scan for more!



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Data Sourcing | Data Management | Data Analytics

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