

In-Vehicle Network Interface & Standalone Data Logger:

- 4 x CAN / CAN-FD Channels
- Wireless Data Transfers / Configurations
- Remote Diagnostics
- 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 its 4 CAN/CAN-FD channels, DoIP, Gigabit Ethernet, USB, and Wireless Capabilities (Wi-Fi & GPS).

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

However, that is not all. 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

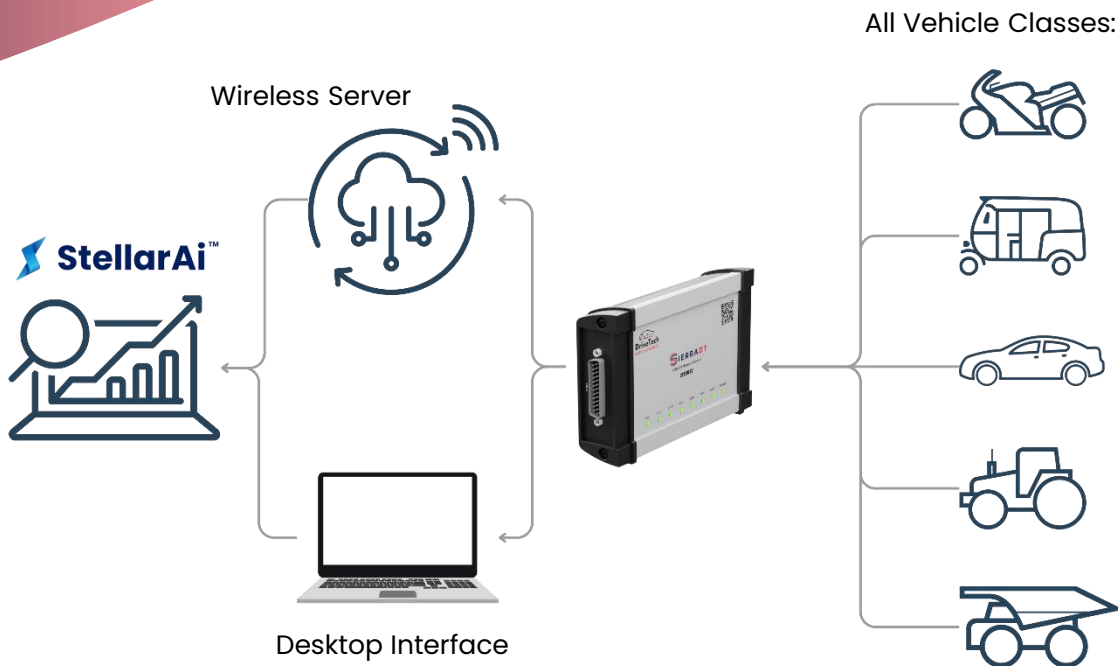


Fleet Testing &
DAQ



SW Testing &
Validations

Integrated Data Pipeline:



SierraDT integrates seamlessly with DriveTech's StellarNi & StellarAi software suits, for remote data sourcing and advanced analytics. The StellarNi IoT Server provides a native platform for end-to-end device management, remote configurations, real-time monitoring and secure data access enabling users to have complete device control over the air.

Further, StellarNi works as a gateway to securely communicate data recorded by each SierraDT device to DriveTech's StellarAi data analytics platform; for advanced analysis, and reporting. The SierraDT to StellarNi to StellarAi value chain ensures that the test data once generated is automatically fetched, processed, archived and used / kept ready for data analytics.

Features:

Analog & Digital I/O



FPGA Architecture



4 Channels

CAN
CAN-FD



Micro SD Storage:
32 to 128 GB

J2534 Pass-thru Support



USB 2.0
Interface



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Remote
Diagnostics



WiFi & GPS Capabilities



Internal Clock



Sleep / Wake on CAN



Scripting & Trigger
Functions



< 50 ns Timestamp Accuracy

lin

3 Channels (Coming Soon)

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

DB25 Pinout:

Pin No	Pin Name	Pin Description
1	GND	Ground
2	ANA_IN_0_OBD	Analog Input 0
3	DIGITAL OUT	Digital Out
4	CAN 4 L	CAN Channel 4, Low
5	LIN_2	Coming Soon
6	CAN 3 L	CAN Channel 3, Low
7	ETH ACTIVATE	Ethernet Activation Line
8	CAN 2 L	CAN Channel 2, Low
9	ANA_IN_1_OBD	Analog Input 1
10	CAN 1 L	CAN Channel 1, Low
11	DIGITAL IN OBD	Digital Input (Button)
12	SIGNAL GND	Signal GND
13	VBATT – 6V to 36V	Input Power
14	GND	Ground
15	START_STOP_SWIT CH_OBD	OBD Start / Stop Switch
16	LIN_1	Coming Soon
17	CAN 4 H	CAN Channel 4, High
18	GND	Ground
19	CAN 3 H	CAN Channel 3, High
20	GND	Ground
21	CAN 2 H	CAN Channel 2, High
22	GND	Ground
23	CAN 1 H	CAN Channel 1, High
24	NC	-
25	NC	-



Service Packages:

	Basic	Standard	Professional
SierraDT Device with WiFi & GPS Antennae	✓	✓	✓
PC Utility	✓	✓	✓
SierraDT Vehicle Harness	✓	✓	✓
sFTP / S3 Compatibility	✗	✓	✓
SierraDT Bench Harness	✗	✓	✓
StellarNi Wireless Server	✗	✓	✓
StellarNi-based Live Diagnostics	✗	✗	✓
Hardware as a Service	✗	✗	✓
Customized Harness	✗	✗	✓

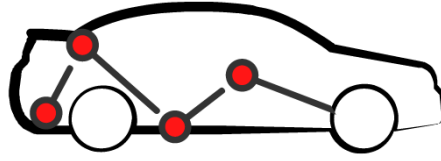
Bench Harness

- 1 x Device Side DB25 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 DB25 Female Connector
- 1 x Device Side Hand-held Trigger Button
- 1 x Device Side USB Internet Dongle
- 1 x Vehicle Side OBD Male Connector





DriveTechTM

INTELLIGENCE

Making Sense of Data...

Scan for more!



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Data Sourcing | Data Management | Data Analytics

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