- Capture and analyze rich vehicle data
- Test advanced vehicle features, including ADAS and advanced safety
- Dramatically reduce your mean time to problem resolution
- Improve the efficiency of your development processes
- Increase your quality and customer satisfaction while reducing warranty costs

UNLOCK THE POWER OF VEHICLE DATA

APTIV EP-2000



Building on Aptiv Connected Services' history of industry-leading performance, the EP-2000 is quite simply the most powerful data acquisition hardware available. This next-generation data logger supports more than twice as many CAN channels as the EP-1000, as well as LIN, DoIP, CAN FD, and automotive Ethernet. It can support up to four video cameras, and it has the fast processing capabilities necessary to handle the high data loads of modern vehicle architecture. The EP-2000 is ideal for pre-production validation of gasoline, diesel, hybrid, and electric vehicles with advanced features, including connectivity, advanced driver assistance systems (ADAS), automated safety, in-vehicle infotainment, and autonomous driving capabilities.

Currently in development, the EP-2000 will be available in early 2022.

Industry-Leading Rich Data Acquisition

Other data loggers typically collect only CAN data at a fixed rate, and they can't offboard the data in real time. By contrast, the EP-2000 can capture thousands of signals — more than any other hardware on the market — with microsecond precision.



The EP-2000 runs Aptiv's Connect Edge software to detect anomalies and monitor when signals have exceeded configurable thresholds. These advanced triggering capabilities allow you to specify exactly which data you want to collect and when you want to collect it. It provides the rich, high-fidelity data you need for trouble-shooting advanced vehicle systems.

Multi-Protocol Synchronous Data Stream

The EP-2000 can simultaneously collect data from CAN, LIN, BroadR-Reach, and standard Ethernet, and it supports a wide variety of protocols, including CCP/XCP, J1939, J1979, and more. In addition to capturing full-fidelity CAN logs, it also creates files that collect high-speed data before and after configurable triggers.

The EP-2000 hardware is an integral part of Aptiv Connect Qualifier, which includes the Qualifier suite of web-based applications, the Developer configuration tool, Connect Edge in-vehicle analytics, and professional services. Contact your Aptiv representative for more information about Aptiv Connect Qualifier, the EP-2000, or Aptiv's other Edge-capable devices.

APTIV

TECHNICAL SPECIFICATIONS

EP-2000 Hardware	
Processor	Multicore: one dual-core 64-bit 2 GHz processor plus three dual-core 1 GHz processors
RAM	8 GB
Fixed Storage	256 GB
Optional Additional Storage	1+ TB
Ethernet Channels	6 BroadR-Reach; 3 standard Ethernet
CAN FD Channels	16
LIN Channels	Up to 2
DoIP Interface	1
Power Backup	Onboard backup battery
USB Ports	2: one USB-A and one USB-C with power
LVDS Ports	2
Wireless	802.11 ac/b/g/n AP and STA at 2.4 GHz and 5 GHz
Bluetooth	5.0 plus LE
Cellular	CAT-4 LTE/GMS/CDMA
GNSS	10 Hz refresh with 2.5 m accuracy at CEP 50
Video	Optional, supports up to 4 cameras
Protocols Supported	CCP, XCP, SAEJ2534, J1939, J1979, J1708, ISO-9141, ISO-14229, ISO-15765, ISO-15031, GMLAN
Accelerometer & Gyroscope	6D
Security	Integrated security chip
Audio	Integrated speaker

Connect Edge Software

- Analytics and processing engine
- Simultaneous logging of CAN history, trip data, high- and low-speed event triggers, and event- and time-based snapshots from CAN, LIN, and Ethernet
- Microsecond precision
- Support for multiple file formats including A2L, DBC, and ODX
- Support for complex event trigger logic that includes Boolean operators, math logic, and statistical functions
- Support for synthetic variables (calculated parameters)
- Remote configuration and device monitoring capabilities
- Self-OTA capabilities
- Onboard diagnostics to ensure high data yield

About Aptiv

Aptiv is a global technology leader with more than 200,000 people across 124 manufacturing facilities and 11 major technical centers worldwide. With a presence in 48 countries, we address mobility's toughest challenges through our deep software and systems integration expertise, delivering market-relevant solutions for our customers.

Our mission is to make the world safer, greener, and more connected than ever before. As these trends converge and the world of mobility changes, we will lead this change.

Mobility has the power to change the world, and we have the power to change mobility.