DATA SHEET



ASM

Expand your data collection capabilities with more channels and support for data acquisition while vehicles are not running.

Do you know what your test vehicles are doing at night?

Most data loggers are designed to collect data only after the vehicle has started. But as the electrical content in vehicles increases, manufacturers are frequently experiencing issues that occur while the engine isn't running. When drivers get into test vehicles in the morning, they sometimes discover that something has drained the battery overnight, and they have little data to help figure out what happened.

Aptiv's ASM solves that problem — and a whole lot of others.

BENEFITS

- Reduce warranty claims by finding and fixing issues before vehicles go to production
- Acquire data during key-off without draining the battery
- Extend the capabilities of your VDRs with more analog, digital, and LIN channels
- Integrate ground-monitoring video with EP-800 data

DO MORE WITH YOUR VDRS

When paired with an Aptiv EP-800 or EP-2000 vehicle data recorder (VDR), the A-SM allows you to collect more data than would otherwise be possible. It can record what happens in the vehicle during key off, including what happens before and during the ignition/startup process.

The ASM also adds other capabilities like three LIN channels, two 20-bit analog inputs, eight 16-bit analog inputs, and three digital inputs, as well as three digital outputs. It also enables the lightweight EP-800 VDR to collect video.

DON'T DRAIN YOUR BATTERY

But the ASM's most notable feature is its low current draw. All its components were specifically selected to provide maximum functionality with minimal power. During key off, it draws less than 10 mA while logging data. If you do the math, it would take three to seven months (or more) for the ASM alone to drain your battery, even if it were constantly logging data.

That makes it ideal for troubleshooting 12-volt battery systems, as well as a whole host of possible issues with electric and hybrid vehicles.

PART OF THE APTIV CONNECT QUALIFIER SOLUTION

Used by 70% of the world's leading vehicle manufacturers, Aptiv Connect Qualifier is an end-to-end data collection and analytics solution. It includes Edge hardware with Connect Edge software for edge processing, web-based analytics applications, and professional services. To learn more or set up a demo, contact your Aptiv representative or email qualifier@aptiv.com.

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FEATURES	
Dimensions	160 mm x 111 mm x 42 mm
Current Draw	<10 mA during key-off
Analog Inputs	2x 20-bit and 8x 16-bit
LIN Channels	3, configurable as commander, receiver, or sniff
CAN-FD Channels	2
Digital Inputs	3
Digital Outputs	3
Device Control	1
Optional Daughter Card	Can be configured with 802.15.4 sensors, Bluetooth for remote wake or other peripherals
Integration	Supports EP-800 and EP-2000 VDRs

CONNECT EDGE SOFTWARE

When paired with and EP-2000 or EP-800, the ASM can run Aptiv's Edge Connect software, an edge processing and analytics engine with the following features:

- 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 company that designs, develops, and manufactures software and hardware solutions to enable a safer, greener, and more connected future of mobility. Visit aptiv.com

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