

AST-1000 All-in-One Infotainment Testing

Infotainment systems must seamlessly interoperate with dozens of entertainment, navigation, communication, safety technologies, and many global standards, all while delivering an excellent user experience. This creates many challenges for developers and OEMs. The [AST-1000](#) provides a flexible, all-in-one solution for quick and comprehensive system validation, as well as tools for functional and end-of-life testing.

Application Challenges

- Build upon and support global infotainment standards for all common broadcast GNSS, radio, video, navigation, and connectivity
- Conduct multistandard stress testing in the lab
- Accelerate manufacturing test deployment with an all-in-one integrated solution

The Avera AST-1000 Advantage

- Enable global deployment with a single, standard test platform that offers simple calibration, maintenance, and support
- Adapt to changing requirements with support for additional RF/non-RF signals, protocols, and communication busses
- Maximize test coverage with modular instrumentation that supports RF signal record and replay and system synchronization

The Avera + NI Solution

Utilize a complete set of automation and productivity tools powered by NI TestStand and PXI modular instrumentation.

Enjoy an easy-to-use API with any programming language, including LabVIEW, and LabWindows™/CVI.

Handle automotive bus and communication protocols such as CAN, USB, analog and digital I/O, wireless, and Bluetooth.



Avera

Figure 1. Avera AST-1000

“By combining the benefits of the AST-1000 and the NI platform, our global automotive OEM client has standardized on a common test platform, covered all global wireless broadcast and connectivity testing standards, and increased test coverage.”

– Jean-Levy Beaudoin
Vice President of Platforms & Innovation,
Averna

Key Specifications and Available Toolkits

Specifications	Record and Replay, Customizable, 9 kHz–6 GHz, Two Channels @ 200 MHz
General	RF Studio Player, DriveView Player
Radio	AM/FM, DAB/DAB+/DMB, DAB Service Linking, DRM, HD Radio (IBOC), RDS/RDBS (One Channel or Three Channels), TMC–RDS, SiriusXM (Pre-TA Part 2, Pre-OTA Change and Module Integration, including Sirius NGO)
Navigation	BeiDou, Galileo, GLONASS, GPS, HIL Simulation, QZSS
Video	ATSC, CMMB, DTMB, DVB-T, DVB-T2, ISDB-T
Connectivity	PXI Framework Supports NI Waveforms such as Bluetooth, LTE, WCDMA, and Wireless



For more information on the AST-1000, visit [Averna's website](#)

System Integration on Your Terms

NI offers a variety of solution integration options customized to your application-specific requirements. You can use your own internal integration teams for full system control or leverage the expertise of our worldwide network of NI Partners to obtain a turnkey system. To learn how you can increase product quality and shorten test timelines, contact your account manager or NI at (888) 280-7645 or info@ni.com.

Contact Averna or your NI account manager to learn more about how we can help you increase product quality and accelerate testing timelines.

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