

Broadband & A/V Test Platforms



**DOCSIS® Solutions
for Broadband
and Cable Testing**

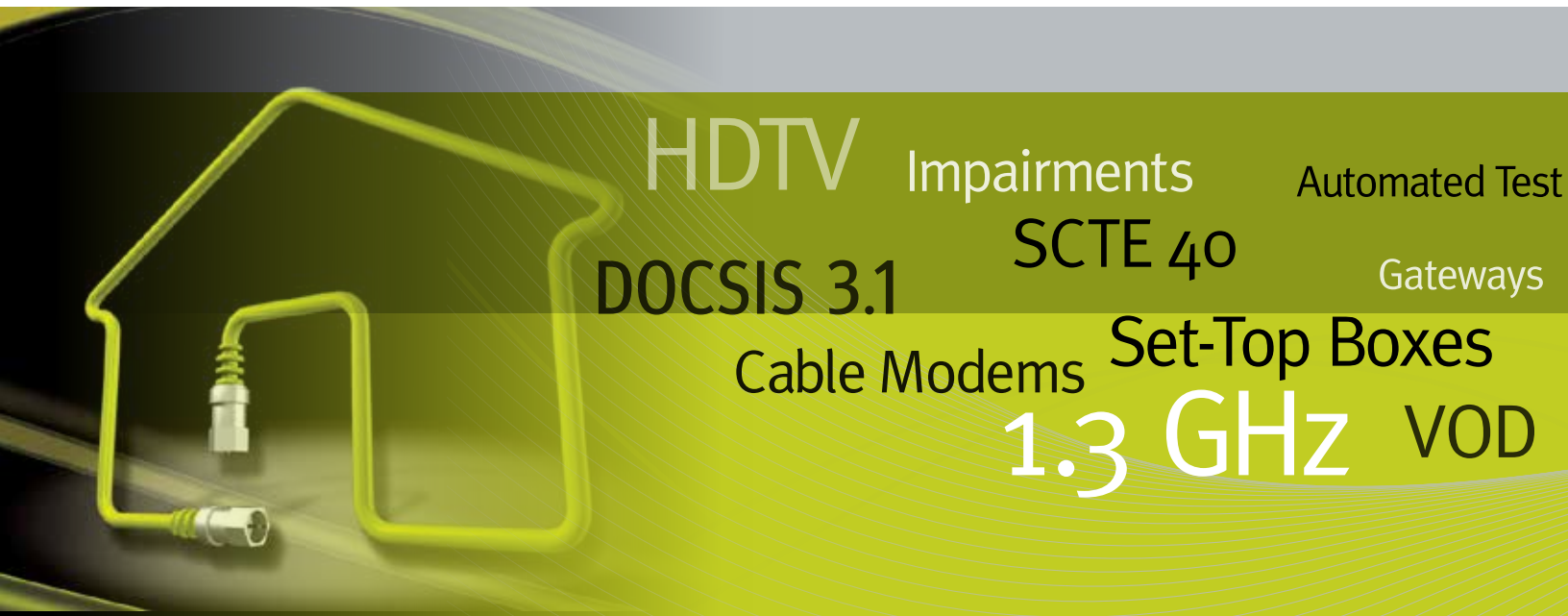
**Solutions for Audio
and Video Testing**

Industries

- RF & Microwave
- Optics & Photonics
- Broadband & Cable
- Automotive
& Transportation
- Life Sciences
- Aerospace & Defense
- Consumer Electronics

We are global test experts

Whether you need to **design** a test system, **validate** a new prototype, **deploy** production stations, **analyze** test results or **improve** test time and throughput, we can help drive your success. **We have the ideal test services and solutions** – where and when you need them.



Avera's innovative **DOCSIS** and **EuroDOCSIS solutions** ensure you deliver the most robust **customer-premises equipment (CPE)** and **headend (HE)** products and services. Our suite of proven **test and automation solutions** covers all phases of product development such as design **verification**, volume **manufacturing** and network **troubleshooting**, and will also help you achieve **DOCSIS** certification.

Typical Customer Success: Set-Top Box Returns

Challenge

Our customer, a third-party logistics (3PL) company, needed to both accelerate processing and expand test coverage to streamline STB returns testing and reduce manual operator tasks.

Solution

We deployed our MTP for in-depth 8-up parallel testing of power, video (RF, CVBS, S-Video, CAV, HDMI), audio (analog, digital, HDMI), LEDs, buttons, remote controls, Ethernet and HPNA.

> DP-1000

DOCSIS 3.0 and 3.1 Protocol Analyzer

Our DP-1000 is the industry standard for functional DOCSIS and EuroDOCSIS network analysis, providing exceptional visibility into the MAC layer. Multiple system operators (MSOs), chipset manufacturers, product developers and certification bodies use it to quickly find and correct trouble spots.

> DCE

DOCSIS Channel Emulator

The DCE allows OEM and ODM labs to accelerate their internal validation and comply with SCTE 40 requirements, and helps MSOs replicate network issues in their labs. It is an innovative, modular and low-cost platform that leverages NI hardware, features FPGA processing and deploys user-friendly development tools.

> Mercury

Manufacturing Verification Test System

Our Mercury solution is the industry standard for automated mass-production verification testing for DOCSIS or EuroDOCSIS compliance. It provides the widest possible test coverage and most accurate results on the market for DOCSIS 1.1, 2.0 and 3.0 devices, while handling up to 16,000 units per day.

> Jupiter

Design Verification Test System

Jupiter is the leading solution for automated DOCSIS physical (PHY) layer testing. It provides the most comprehensive, off-the-shelf test coverage and accurate results on the market for EuroDOCSIS and DOCSIS 1.1, 2.0, 3.0 and 3.1 devices, helping dramatically reduce test times and speed up time-to-market.

Results

Our customer has greatly expanded automated test coverage, increased productivity and lowered costs.

**Working closely
with certification labs
and standards bodies,
Averna has produced
the ultimate broadband
test solutions for the
cable industry.**



DP-1000

> Fast-Track Your Product Success

Our test solutions consistently produce exceptional quality, productivity and financial results. Customers benefit from accelerated time-to-market, volume and profitability, increased visibility and control over their testing and supply chain, and lower project costs and risks.

> Multimedia Test Platform

The MTP is an **all-in-one test platform** for validating the accuracy and quality of **multimedia interfaces** during all production and repair/optimization phases. Featuring National Instruments' **audio/video analyzers** and Avera's **software solutions**, the state-of-the-art MTP accommodates the very different needs of both **test engineers** and **repair technicians**.

- **Hardware Features**

The MTP is based on modular PXIe components from National Instruments such as Video Measurement Suite, High-Performance Analog Video Analyzer, High-Speed HDMI Analyzer, High-Resolution, 24-bit Analog Audio Analyzer, Multi-Format Digital Audio Analyzer and more.

- **Software Benefits**

MTP combines NI TestStand, LabVIEW and Picture Quality Analysis software, NI AudioMASTER and Video Measurement Suite, and Avera's award-winning Proligent® Analytics solution for fully automated audio/video testing and higher throughput.

- **Multiple Interface Support**

Test a wide range of multimedia interfaces such as Composite and Component Video, Digital Video Interface, HDMI Audio and Video, Analog and Digital Audio, Broadcast Digital and Analog Television, Wi-Fi, Infrared, Ethernet, USB, eSATA and electrical.

> What Sets Us Apart

From our award-winning Proligent® and RF Test instruments to innovative and on-demand test-engineering services, we produce proven test solutions for the entire product lifecycle, getting our customers' electronics and communications products to market faster – and with higher quality – than the competition.



Mercury

We are a leading NI Platinum Alliance Partner and have over 50 certified NI LabVIEW™, NI TestStand™, and LabWindows™ / CVI™ architects, developers, and instructors on staff.

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