

Audio IC Evaluation

EVA100 MEASUREMENT SYSTEM



EVALUATION FOR AUDIO IC

Advantest's Smart Solution for Engineering

- Minimize setup & acquisition time for audio IC device verification, evaluation and characterization.
- EVA100 Audio IC Evaluation Solution is an "all you need" solution providing Arbitrary Waveform Generator, Digitizer, Power supply and Digital control capability integrated in a small box. "Measurement Atelier" is a GUI-based tool that easily and quickly creates Test Sequences and improves engineering tasks with "Sync Set Up" as Analog/Digital signals synchronization tool. "High Dynamic Range Option" for signal purity to THD <-120dB is available.

■ **Audio IC device functional measurements with flexibility**

- HW and SW functions for Designs & Verifications
- Easy synchronization with External test instruments

KEY FEATURES

■ **Hardware**

4ch Arbitrary Wave Generator (Single / Differential)

- 200ksps/24bit/80kHzBW, 70kw Wave memory
- Output voltage range: ±10V (AC+DC)
- THD(up to 5th harmonic): -120dB typ @1kHz

4ch Waveform Digitizer Module

- 625ksps/24bit/200kHzBW, 256kw Wave memory
- Input voltage range: ±10V
- THD(up to 5th harmonic): -120dB typ @1kHz

6ch SMU Module (Analog VI sources)

- +/-64V, +/-500mA
- +/- (0.02%+0.4mV) accuracy @ 8V Range

32ch Digital Module

- Data Rate: 100Mbps (100MHz CLK)
- Voltage Range: -1.5V to 6.5V

Utilities Module

- 64ch Relay control
- Standard Protocols: I2C, SPI, JTAG and Custom I/F

■ **Options**

- High Dynamic Range Option
- High Accuracy Frequency Flatness Option

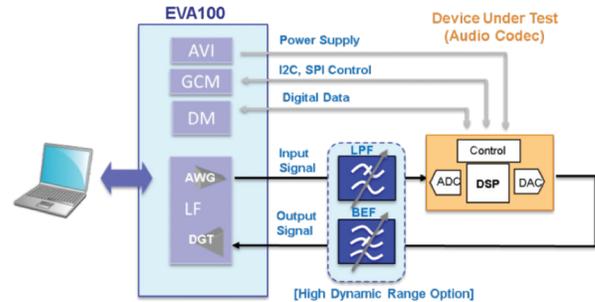
■ **“Measurement Atelier” as Software tools**

- Sequence Editor
- Flow Editor
- Report Generator(automated test report tool)
- Sequence Gadget (Test templates)

■ **Easy Operation for Analog & Mixed Signal IC Devices**

- “Sync Set UP” allows full synchronization for Analog and Digital signals

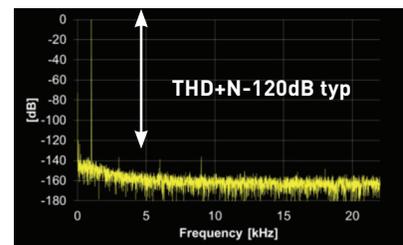
AUDIO CODE



■ **High Dynamic Range Signal Generation & Analysis**

- Filter (100/200/500/1k/2k/5k/10kHz) out
- Automated filter range selection
- THD 120dB High Dynamic Range

HIGH DYNAMIC RANGE OPTION

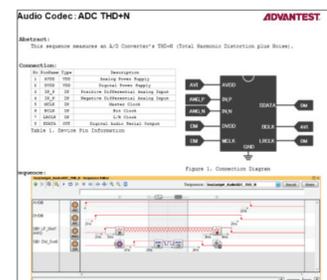


■ **Quick & Reusable Test Sequences**

- Provide various Test templates for quick data acquisition

TEST ITEMS

- ✓ SNR
- ✓ D-Range
- ✓ THD
- ✓ THD + N



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