**Audio IC Evaluation**

EVA100 MEASUREMENT SYSTEM

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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

Quick & Reusable Test Sequences
- Provide various Test templates for quick data acquisition

TEST ITEMS
- SNR
- D-Range
- THD
- THD + N