



KEY FEATURES

- Multichannel analog configurations
APx582: 8 inputs / 2 outputs
APx585: 8 inputs / 8 outputs
APx586: 16 inputs / 8 outputs
- AES/SPDIF digital I/O
- Typical THD+N < -107 dB
- A powerful, intuitive UI with one-click measurements
- Transfer Function and Open-Loop Chirp Measurements
- Support for the complete range of APx digital I/O options

Channel count meets broad range of digital I/O for simultaneous multichannel audio test

The **APx58x B Series** combines an award-winning user interface with Audio Precision's legendary commitment to fast and accurate performance. APx's user-friendly innovations include a range of connectivity options, two easy-to-use UI modes, one-click measurements, code-free automation, a sophisticated reporting engine, and multiple signal paths within a project.

A true multichannel analyzer

The **APx585 B Series** is a true multichannel audio analyzer, with 8 simultaneous analog outputs and inputs for testing multichannel audio devices. A multichannel analyzer allows not just faster testing, but also a complete picture of performance that a two channel analyzer with switchers might miss, such as output sag across channels during full power output tests or phase and crosstalk interactions. With the HDMI option, it is ideal for designing and testing consumer devices such as home theatre receivers.

The **APx586 B Series** adds a second input module for 16 simultaneous analog input channels, ideal for high-speed, high-channel count test such as automotive or pro audio mixers and other applications.

The **APx582 B Series** provides the same 8 channels of analog input, but with 2 channels of high-performance analog output that includes DIM/TIM distortion tests and selectable output impedances of 20, 50, 75, 100, and 600 Ω.

Automation and reporting

Repetitive bench tests and production testing can easily be automated with the built-in measurement sequencer, and saved as a project that can be used with any APx analyzer. Production Test mode provides an optional simplified operator interface with multiple run statistics, created and supervised by a manufacturing engineer. Access the API if you prefer: documentation for VB.NET, C#.NET, MATLAB and LabVIEW is included. Create powerful reports with Microsoft Word that let you define your own formatting and add graphs, tables and logos.



APx586 B Series 16-channel analyzer



APx582 B Series 8-channel analyzer

OPTIONS

Select the options that match your needs. All models use the same software, so sharing projects is easy and modular hardware allows for future upgrades.

DIGITAL I/O

Digital Serial	Adds interface for I ² S, TDM, DSP	PDM	Adds direct connectivity for digital MEMS mics
Bluetooth®	Adds Bluetooth radios for wireless audio test	AMC	Advanced Master Clock adds jitter clock, sync and trigger I/O
HDMI+ARC	Adds HDMI source, sink, monitor, aux and ARC I/O	ADIO	Adds Advanced Digital I/O and Advanced Master Clock modules

Versatile, Powerful Audio Test

Combined with APx audio measurement software, the B Series APx audio analyzers integrate power, flexibility and ease-of-use. Choose between Bench Mode for real-time visibility into device behavior across a variety of parameters, and Sequence Mode for fast production testing and automated measurements.

APx Digital Options

APx B Series audio analyzers offer world-class performance and flexibility. Our modular systems allow you to select the interfaces and options that make sense for the work you do, covering the widest range of digital I/O in the industry. Select models support jitter generation and analysis when installed in AMC-configured APx analyzers.

HDMI

The B Series APx HDMI option (HDMI+ARC) allows you to measure HDMI audio quality and audio format compatibility on devices such as surround sound receivers, set-top boxes, HDTVs, smartphones and tablets, and DVD or Blu-ray Disc™ players.



Bluetooth®

The B Series APx Bluetooth Duo supports A2DP, AVRCP, HFP, and HSP profiles for comprehensive wireless audio testing. With two integrated radios, APx Bluetooth Duo easily supports source/sink, audio gateway/handsfree, and target/controller profile roles.



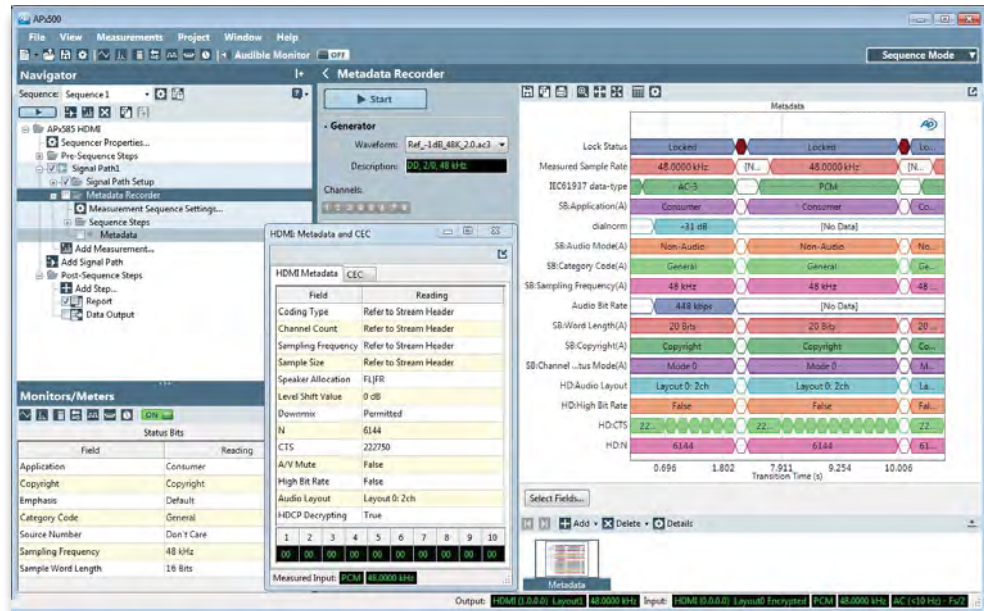
Digital Serial

The Digital Serial I/O option adds a multichannel digital serial interface. This provides a direct connection to chip-level interfaces such as I²S and supports all popular serial interface formats including left justified, right justified, and DSP. This option is jitter capable.

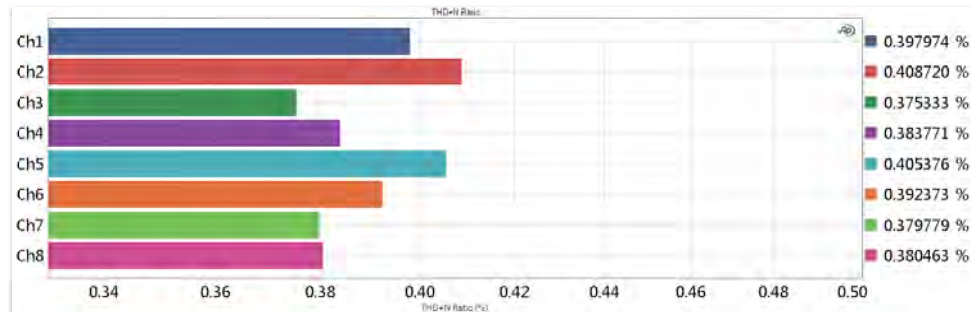


PDM

The B Series APx PDM option provides direct connectivity for audio devices that have a PDM output (such as a MEMS microphone) or input (such as the decimator on a smartphone chip). In addition to all the standard audio measurements, APx provides variable DC voltage, variable sample rate, and a PSR (Power Supply Rejection) measurement to test the device's full operating parameters. This option is jitter capable.



APx500 Measurement Software metadata recorder tracking metadata changes during an HDMI hotplug event.



APx 585 and 586 are true multichannel analyzers; shown above is an 8-channel THD+N Ratio measurement.

KEY SPECIFICATIONS

SYSTEM PERFORMANCE
Residual THD+N (20 kHz BW)
-103 dB + 1.4 µV
Typical <-108 dB (1 kHz, 2.5 V)

GENERATOR PERFORMANCE
Sine Frequency Range
5 Hz to 80.1 kHz

Frequency Accuracy
3 ppm
IMD Test Signals
SMPTE, MOD, DFD
Maximum Amplitude (balanced)
14.4 Vrms
21.22 Vrms (APx582)
Amplitude Accuracy
±0.05 dB
Flatness (20 Hz - 20 kHz)
±0.008 dB

Analog Output Configurations
Unbalanced and balanced
Digital Output Sampling Rate
27 kS/s to 200 kS/s*
Dolby / DTS Generator
Yes (encoded file)

*Optical 27 kS/s to 108 kS/s

ANALYZER PERFORMANCE
Maximum Rated Input Voltage
160 Vpk
Maximum Bandwidth
1 to 16 channels of analog input 90 kHz
IMD Measurement Capability
SMPTE, MOD, DFD
Amplitude Accuracy (1 kHz)
±0.05 dB
Amplitude Flatness (20 Hz - 20 kHz)
±0.008 dB
Residual Input Noise (20 kHz BW)
1.3 µV
Individual Harmonic Analyzer
d2-d10
Maximum FFT Length
1248K points
DC Voltage Measurement
Yes



Accredited by A2LA
under ISO/IEC: 17025
for equipment calibration

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