HDACTO
High Density Analog Converter
Test Option for Teradyne FLEX

Superior Channel Density
▶ Add up to 64 source channels
▶ Add up to 64 capture channels

Complete Compatibility
▶ Integrated with IG-XL software
▶ Compatible with G4 background DSP
▶ Certified under OpenFLEX™

Reduce Your Cost of Test
▶ Extends capabilities of your existing fleet of FLEX testers
▶ Low cost alternative for expanding FLEX throughput
▶ Easy to use
▶ Reduced cost of DIBs

High Reliability
▶ Salland has proven track record for reliable, high density ATE upgrades
▶ Support available from Teradyne

Economical Way to Add Analog Channels
HDACTO is targeted to markets that require a large number of basic analog channels. Many of these applications do not require the high performance of the BBAC. Salland has developed HDACTO to be pin compatible with BBAC while delivering much higher channel density. The result is lower cost of test on your existing fleet of testers.

Targeted Applications
HDACTO is ideal for the following applications:
▶ Baseband Audio
  ▶ Class D audio subsystems
  ▶ PC Audio, microphone, low end mixer
  ▶ MP3, headphones, cell phone audio
  ▶ 5.1/6.1/7.1 surround sound
▶ Telecom (SLIC, SLAC, Codecs)
▶ Optical Data Device
▶ Sensors
  ▶ Tire pressure sensors, Automotive sensors
  ▶ MEMS devices, airbag sensors
  ▶ Power Meters
▶ Converters
  ▶ 12 to 15 bit ADC/DAC in microcontrollers
  ▶ Industrial Converters
  ▶ ADC/DAC
Configurable Modules

There are eight (8) module slots on the HDACTO motherboard that can be configured with up to 64 source channels or up to 64 capture channels per board in various combinations.

Capture Module

There are 4 independent waveform digitizers each with buffered outputs. This enables the user to have up to 64 single-ended (32 at the same time) or 32 differential channels. Capture specs are:
- 18 bit capture resolution
- 1 ksps to 2 Msps sample rate
- 1.1 MHz capture bandwidth
- >99 dB SNR @ f-in =1 kHz
- -136 dBfs/Hz @ 20 Hz - 20 kHz

Advantages

HDACTO is fully compatible with FLEX testers at both the hardware and software levels. It is certified under Teradyne’s OpenFLEX™ program. It is easy to use. Since no multiplexing relays are needed, the complexity of your DIBs will be reduced saving you additional money on PCBs.

Source Module

There are 4 independent waveform generators. This enables the user to have 64 single-ended channels or 32 differential channels. Source module specs are:
- 16 bit source resolution
- DC to 2 Msps update rate
- 500 kHz output bandwidth
- 132 dBfs/Hz @ 20 Hz - 20 kHz

Reputation for Quality, Reliability & Support

Salland Engineering is an international leading Test Technology & Engineering company specialized in solutions & services that enable semiconductor manufacturers to achieve lower cost of test, higher quality and reliability, improved test floor efficiencies, faster time to market and streamlined supply chain. Salland Engineering is in business since 1992, headquartered in Zwolle – The Netherlands, and operates worldwide.

Salland Engineering is ISO 9001:2015 certified.