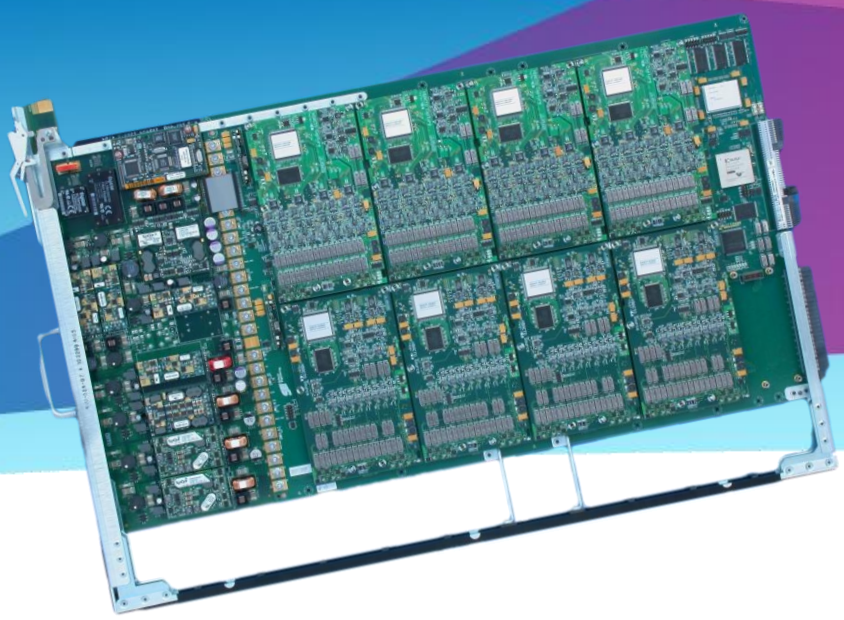
# HDACTO™

## High Density Analog Conveter Option for Teradyne FLEX



### Superior Channel Density

- Add up to 64 source channels
- Add up to 32 capture channels

### Complete Compatibility

- Integrated with IG-XL software
- Compatible with G4 background DSP
- Certified under OpenFLEX™ [1]

### 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, Codec's)**
- **Optical Data Device**
- **Sensors**
  - Tire pressure sensors, Automotive sensors
  - MEMS devices, airbag sensors
  - Power Meters
- **Converters**
  - 12 to15 bit ADC/DAC in microcontrollers
  - Industrial Converters
  - ADC/DAC

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Your challenge, our strength.

# HDACTO

## HDACTO Configurable Modules

There are eight (8) module sites on HDACTO motherboard that can be configured with up to 64 source channels or up to 32 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

### Source Module

There are 4 independent waveform generators. This enables the user to have 64 single-ended channels or 32 differential channels. Specs are:

- 16 bit source resolution
- DC to 2 Msps update rate
- 500 kHz output bandwidth
- 132 dBfs/Hz @ 20 Hz – 20 kHz

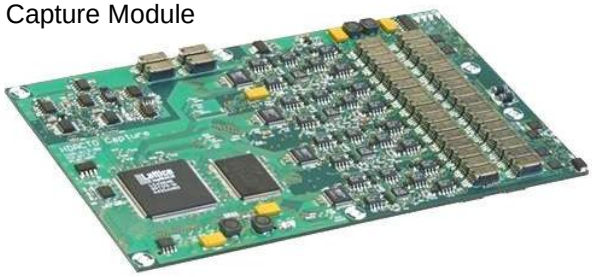
### Advantages

HDACTO is fully compatible with FLEX testers at both the hardware and software levels. It is certified under Teradyne's OpenFLEX™ program. [1]

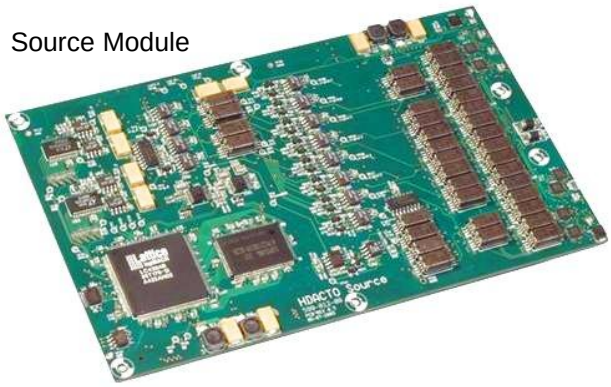
It is easy to use. Since no multiplexing relays are needed, the complexity of your DIBs will be reduced saving you additional money on PCBs.

Its modular design makes it a highly scalable solution. It delivers outstanding density for applications that do not require the high per channel performance of the BBAC.

Capture Module



Source Module



## Reputation for Quality, Reliability and Support

Salland is respected by demanding semiconductor manufacturers, OSATs, and ATE vendors for delivering outstanding instruments that are fully compatible with leading ATE platforms. HDACTO is supported by Salland Engineering on a worldwide basis.

1. Teradyne's OpenFLEX Program

**About Salland Engineering**

Salland Engineering International B.V. is a leading supplier of test solutions for the semiconductor industry. Our solutions are delivered via a unique combination of hardware, software, test applications services and in-depth expertise. We enable our customers to achieve lower cost of test, higher quality and reliability, improved test floor efficiencies, faster time to market and streamlined interfaces with their supply chain. Since 1992, Salland has delivered thousands of production proven results to leading integrated device manufacturers (IDMS), fabless semiconductor manufacturers, ATE vendors and outsourced test and assembly services (OSATs) around the world. We are consistently profitable and presently employ over 100 people. Salland is headquartered in The Netherlands with additional development centers in Texas. We have worldwide sales and support centers in Texas, California, Italy, UK, Singapore, Japan, Korea, and Taiwan. Click here for Trademarks of Salland Engineering. Visit www.salland.com

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