



FLEXBID

modular burn-in driver system

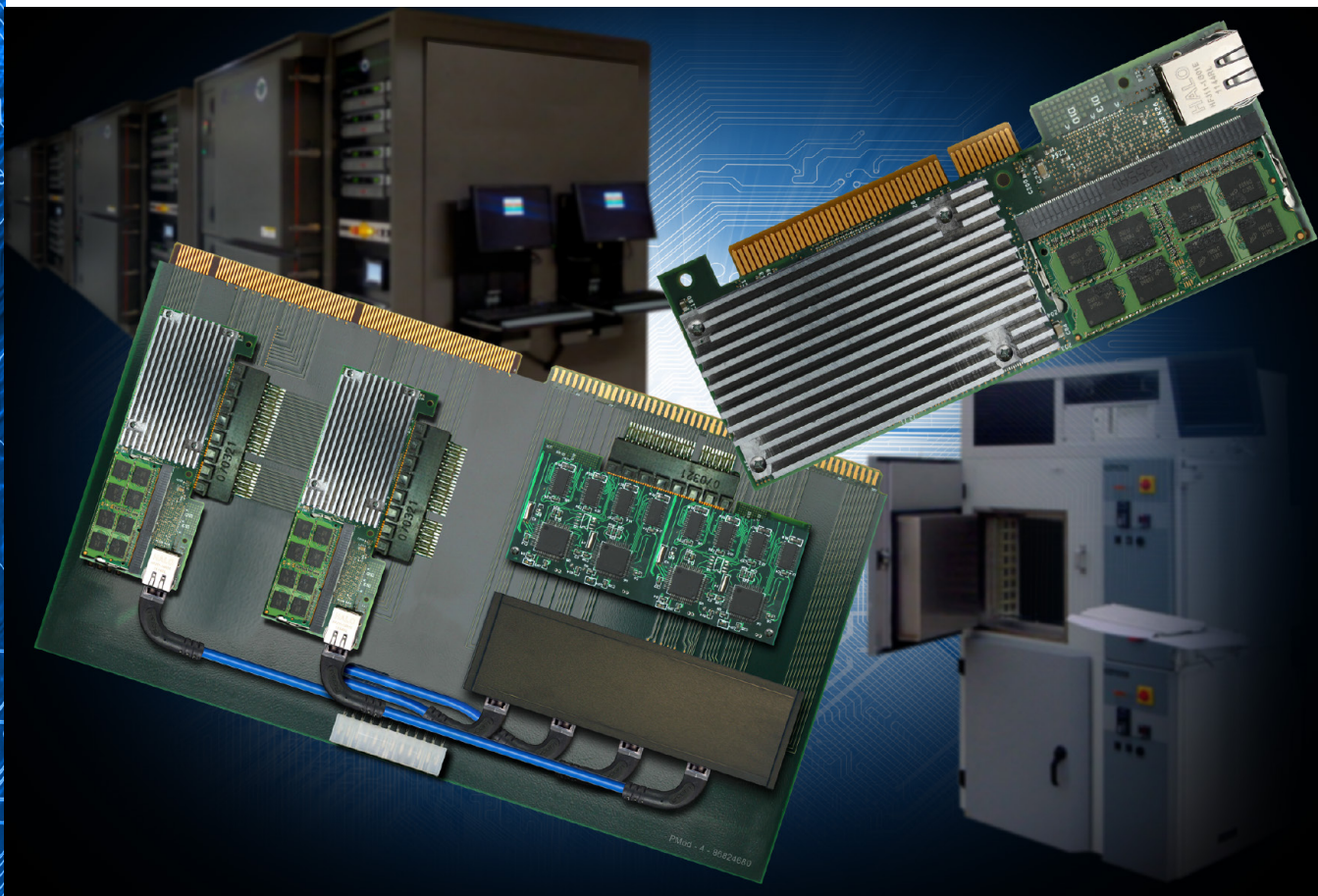
Configurable to suit your application and budget.

Easy integration with any burn-in oven or software.

48 to 384 digital channels per driver board.

Optional Analog Driver Channels

Integrated power supply control.



“As your burn-in needs grow”
FlexBID expands to meet them



Proven Burn-in Driver Technology

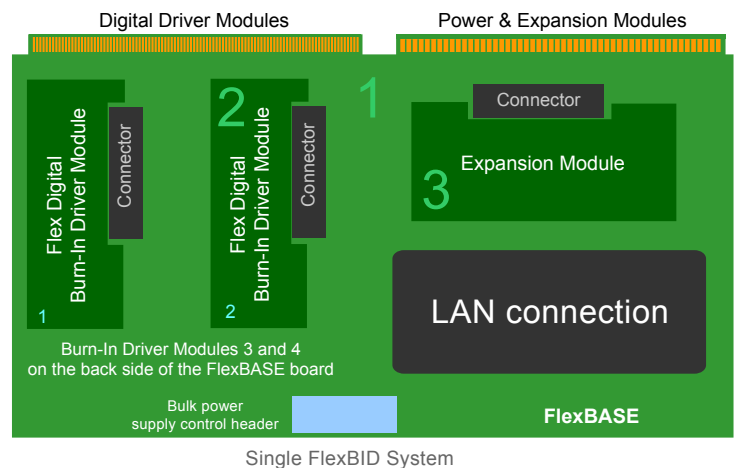
Used for over a decade by major semiconductor vendors, Accutron's Burn-In driver (BID) technology is now available in a modular form - **The FlexBID**. Using a range of digital drivers and power supply control blocks a system can be easily configured which is suited both to your application and most importantly to your budget. And if your requirements become more demanding, unlike other driver systems the FlexBID can expand to meet those needs.

Hardware Overview

A FlexBID driver board is built using the following modules

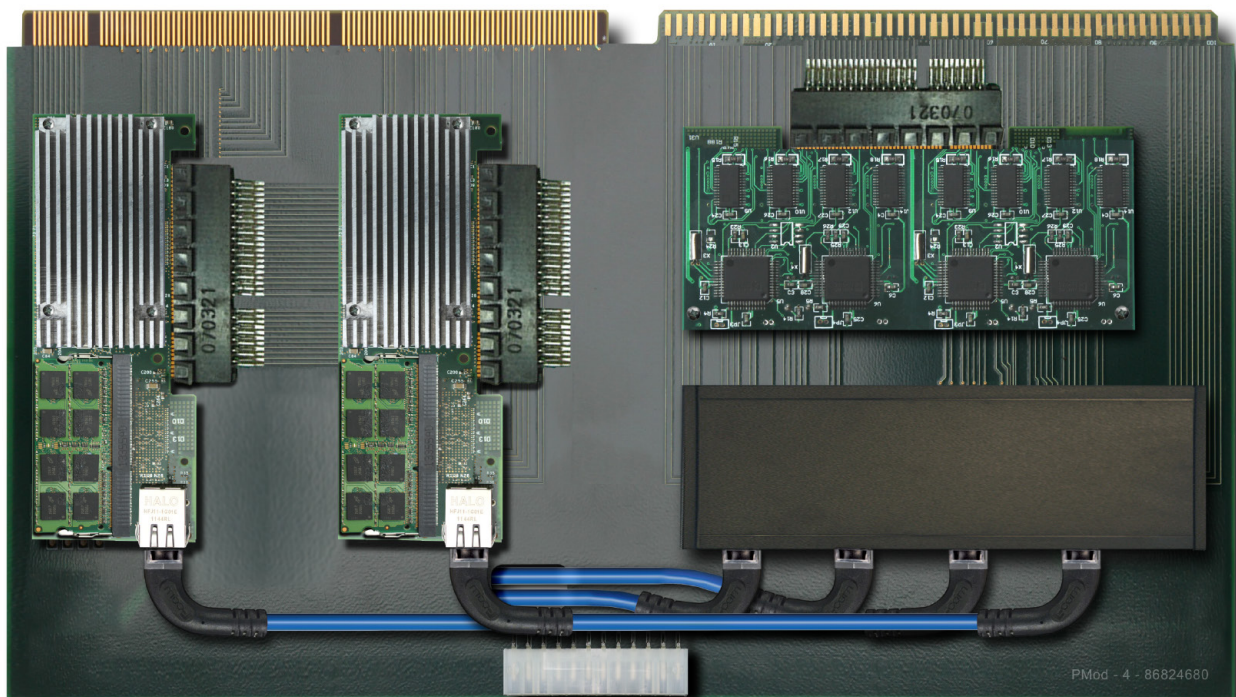
1. **48 channel digital driver (-D48).**
2. **16 channel analog driver (-A16).**
3. **Optional FlexBASE board to hold up to:**
 - 8 x 48 channel drivers giving up to 384 synchroised digital driver channels
 - 1 x 16 channel analog cards
 - Optional power supply modules

The block diagram to the right and photograph below shows an example driver board with: 192 digital channels; 16 analog channels; integrated power supply control



1. The FlexBASE

A Personality Module (FlexBASE) is the base board for the driver system and it combines the various Flex modules into a working system. The FlexBASE connects to your burn-in chamber through standard edge connectors.



FlexBASE board fully populated

Features

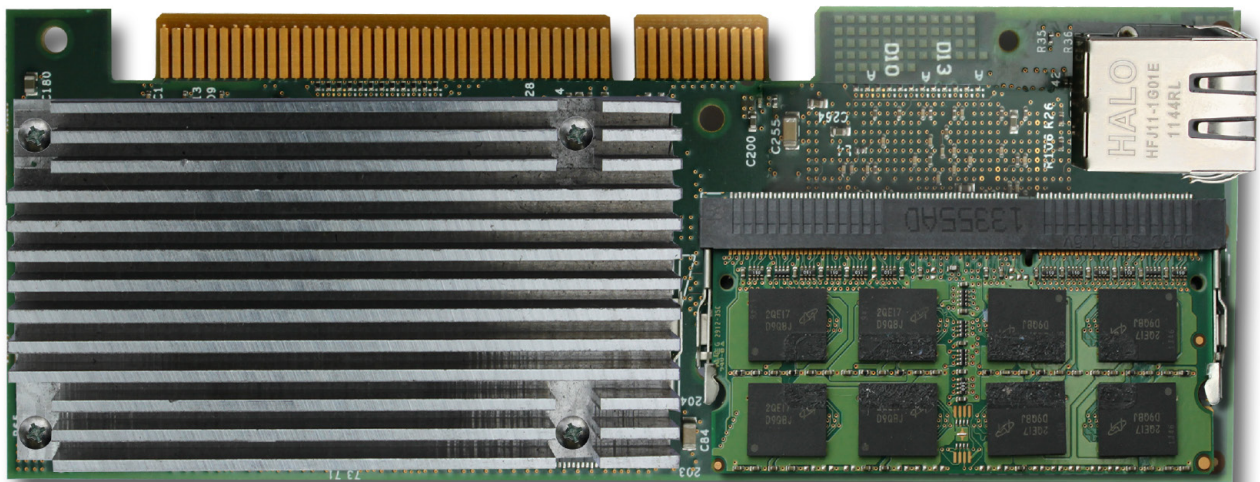
- Option to add up to 8 Flex Digital Burn-In Driver Modules.
- Optional analog channels
- A 1Gb LAN is provided for the high speed download of Vectors.
- Connect up to 32 FlexBASE to build an expanded system.
- A FlexBASE can be built to suit your specific requirements, including customised electronics for those special applications.

Flex Digital Burn-In Driver Module

The digital driver module has 48 driver channels with on-board pattern memory and a high speed FPGA giving each module excellent performance.

Features

- 48 driver channels configurable as follows:
 - Dynamic stimulus and monitoring using deep pattern memory on all 48 channels.
 - Sign of life on all 48 channels.
 - Static I/O control and monitoring on all 48 channels.
- Drivers 0 - 10V; 100mA sink/source; programmable in groups of eight.
- Pattern memory: 4GB of high speed DDR3 on-board memory.
- Up to 20MHz operational speed.
- Vector Development: Auto-compare to expected; Call subroutine (nestable); Repeat N times; Jumps.
- Directly control 4 external bulk power supplies from each module.

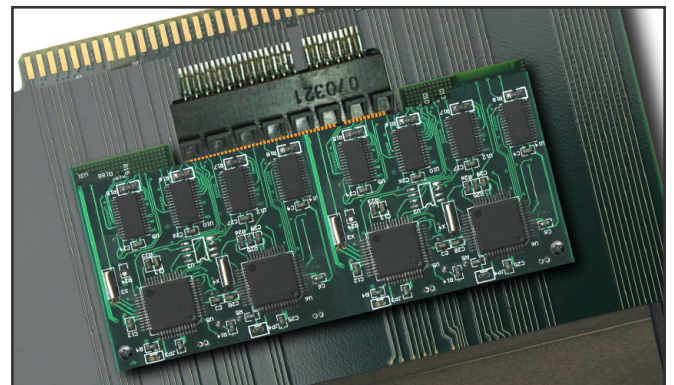


Flex Digital Burn-In Driver Module

Analog Module

Up to 16 analog channels can be optionally added to each FlexBASE.

- 100Hz to 20MHz
- $\pm 18V_{pp}$
- Programmable DC
- Drive Current 40 mA continuous per channel
- Programmable sine, square or sawtooth waveform



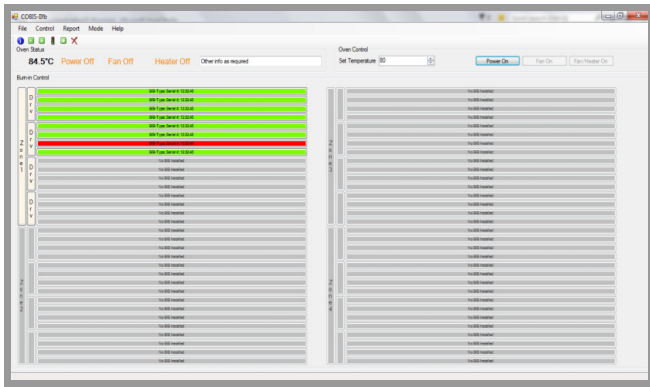
Oven Integration

Each FlexBASE uses industry standard Sullins edge connector footprint. All you need to integrate it to a new or existing BIB is a suitable feed-through board. We are happy to advise on the design of these.

Power Supply Control

Directly control 4 external bulk power supplies from each of the Flex Digital Burn-in Driver Modules.
0 - 10V on control outputs and +/- 12V on monitor inputs.

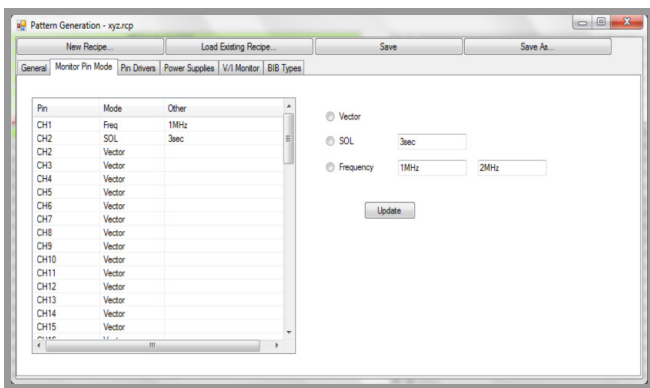
User Interface & Configuration



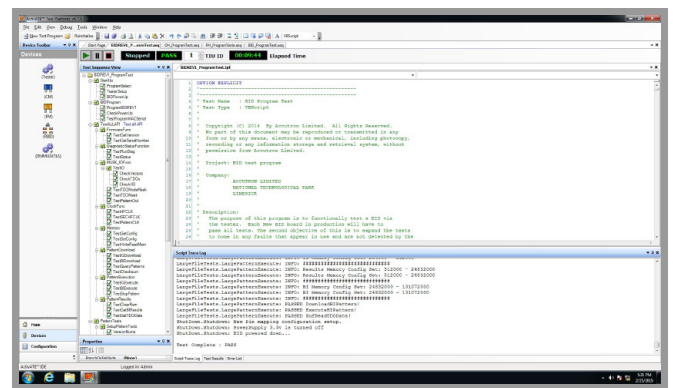
The main user interface gives a graphical representation of the oven, and shows all 64 BIB's, drivers and power zones.



Click on failed DUT in the main interface and a BIB map is displayed showing the failing DUT(s). A further click on this will get more detailed information on the failure.



Creating and editing the burn-in recipe couldn't be easier, and its all accomplished without a single line of coding.



And if you want to do something more complex than our GUI can offer, you can use the API to customise your own user interface.

Digital Vector Programming

Burn-in and test vectors are created using a simple scripting language which has the following features:

- Commonly used vector sequences embedded in subroutines.
- A repeat function for the creation of loops.
- Errors logged and counted.

Head Office

Accutron Ltd

National Technology Park
Limerick
Ireland

Phone: +353 61 331055

Web: www.accutron-test.com

Europe Sales

CoreTest Technologies Ltd.

Phone: +44 (0)7946 381258

Email: sales@coretest.co.uk

Web: www.coretest.co.uk

Including: UK, Ireland, France, Germany, Italy,
Netherlands, Belgium, Spain, Portugal,
Switzerland, Austria and Scandinavia

U.S.A. Sales

RJI Technical Sales

Phone & Fax: (469) 656-2022

Email: sales@rjisales.com

Web: www.rjisales.com

Asia Sales

TRIO-TECH INTERNATIONAL PTE LTD

(Testing & Manufacturing Operations)

1004 Toa Payoh North #07-01

Singapore 318995

Tel: (65) 6254 0255

Fax: (65) 6253 7060

Email: tti-sales@tritech.com.sg

Please Note: Details in this brochure are subject to change without notice so please contact your sales representative for any specification updates.

accutron

FLEXBID
modular burn-in driver system