The Abrel Endzone Burn-in System can offer multiple lot testing over a wide temperature range. Depending on the oven specified, the system can be configured for 10 burn-in positions and up to a maximum of 104 positions per chamber.

**Overview**

A flexible backplane system allows for the user to configure a 1:1 or 3:1 BIB to driver board ratio, for single or zoned testing.

**Hardware**

A real time program editor and viewer, makes for quick and accurate test program generation.
Summary System Specifications

System Configuration
- Scaleable System - 10 BIB ~ 104 BIB slots
- Universal Driver Board
- 6 PSU programmable modules per driver
- 4 x 16 I/O CLK modules per driver
- 2 FPGA module per driver
- 1 Function module per driver
- 64 I/O expansion module per driver
- Temperature options -60°C to +250°C
- Nitrogen and forced air cooling options

Software
- Windows based GUI
- Temperature control and profiling
- PSU setup and sequencing
- Pattern generation
- Monitoring and readback
- Data base management
- Colour coded monitor indicators
- Remote access for debug and updates

PSU Modules
- Module Options:
  - Low Voltage 0-5V @ 20A
  - Standard Voltage 0-20V @ 20A
  - High Voltage 0-100V @ 3A
  - 1kV option available
- Dissipation 150W per module
- Over & under voltage monitoring
- Over current monitoring

CLK Module
- 32 CLK I/O lines per module
- Maximum frequency 20Mhz
- 1M pattern depth
- Drive voltage 1-16V
- Drive current 400mA
- High, Low and Tri-State bit settings
- 255 loops
- 1048576 repeat count cycles

Expansion Modules
- Function Sine Wave
- SPI data analysis
- Leakage current monitoring
- Endurance testing
- i-Socket high power testing
- IPC testing
- LIN Bus testing

Driver Architecture
- 3:1 BIB to Driver Ratio
- Easily reconfigured to 1:1
- Single or Zone Programming
- Shared resources

BIB Configuration
- Endzone (375mm x 605mm)
- 192 I/O per BIB
- (64 drive, 64 monitor, 64 expansion)
- PSU, Sine and board coding channels

Debug Station
- Prescreen test station
- Replicates 1:3 burn-in slot
- Program generation
- Driver board debug

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