ENDZONE *mobile*

Portable Driver Board System

System Overview

Key Features

PSU

- 6 programmable PSU
- 150W PSU modules
- PSU sequencing / soft starts
- Voltage monitoring
- Current monitoring

Drivers

- 64 programmable patterns
- 0.8V-16V drive voltages
- 400mA Drive currents
- 256K pattern depth
- 8 loops with 8-bit counters

Interface to HTOL or HAST Chamber

☐ Overview

The Abrel Endzone Mobile Driver board system is a flexible PSU and Clock pattern driver. The system is designed to provide a mobile driver interface to a qualification system (HAST / HTOL). The system has a basic configuration of 1 driver board, which can be expanded to a maximum of 10 driver boards.

☐ Chamber Interface

Abrel can provide a number of docking options to interface the unit to the burn-in rack. The system operates as a stand-alone unit with PC control for PSU, Clocks, datalogging, and monitoring. A built-in protocol interfaces with the chamber controller to setup temperature, humidity and pressure.

☐ Applications

- HTOL Testing
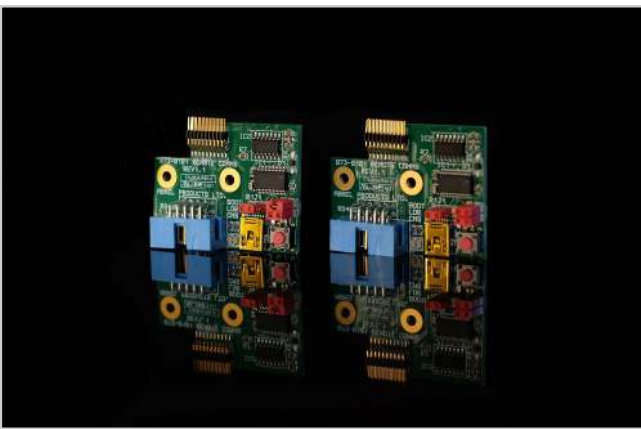- HAST / THB Testing
- PTC Testing
- Device Qualification

☐ Main Features

- Standalone Driver System
- 1~10 drivers - user defined
- Rack Interface
- Device Qualification
- Single or Zoned board programming
- Monitoring and Data logging
- High voltage PSU options
- Remote system access

Abrel Products
advanced burn-in and reliability

Summary System Specifications

☐ System Overview

1-10 Driver positions (User Defined)
Pattern generator module (1:1 Driver / BIB ratio)
Programmable PSU module
Monitoring and data-logging
PC control with Endzone software
Team Viewer remote access
Custom BI system interfaces

☐ System Configuration

Universal Driver Board
6 x PSU programmable modules per driver
2 x 32 I/O CLK modules per driver
2 x FPGA control modules per driver
64 I/O expansion module per driver

☐ PSU Modules

0-100V range capability
Up to 150W per module
Over and undervoltage monitoring
Over current monitoring
External PSU contol modules
1KV applications
6 Modules per driver
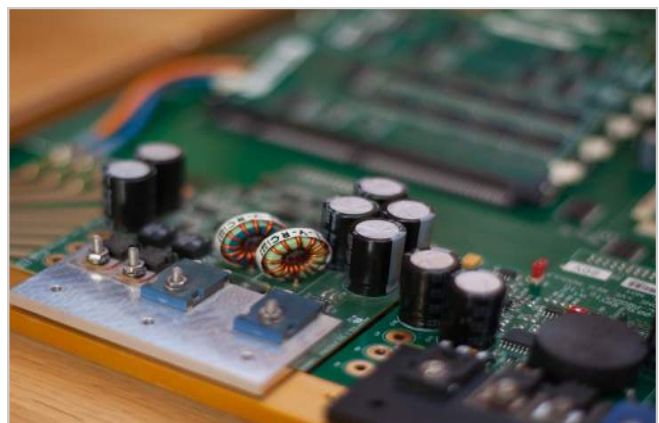Plug and Play installation

☐ Clock Module

32 CLK I/O lines per module
Maximum pattern frequency 20Mhz
256k min pattern depth
Drive voltage 0.8V to 16V
Drive current 400mA
High / Low and Tri-State bit settings
8x8bit loop counters

☐ Expansion Modules

Function Modules (Sine Wave)
SPI data analysis
Leakage current monitoring
Endurance testing
i-socket high power testing
i²C testing
Current Measurement

☐ Software

Windows based software suite
Temperature control and profiling
PSU setup and sequencing
Pattern generation
Monitoring and readback
Remote Access
BIB code filtering
Data base management

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