Abrel Products

ENDZONE *mobile*

Portable Driver Board System

System Overview

Key Features

Application

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

PSU

- 5 programmable PSU
- Max voltage 100V @ 3A / PSU
- PSU sequencing and soft starts
- Voltage monitoring
- Current monitoring

Drivers

- 64 programmable patterns
- 1-16V drive voltages
- 400mA Drive currents
- 256K pattern depth
- 8 loops with 8-bit counters

System Highlights

- *Portable Programmable PSU and Driver system*
- *Can be interfaced to HTOL, HAST or PTC System*
- *1-10 optional driver boards - user defined*
- *Single or Zoned board programming*
- *Monitoring and Data logging options*
- *Supply voltages to 100V*
- *Remote system interrogation*
- *Windows interface control software*
- *Program database with full revision histories*
- *Remote software updates and maintenance*

■ 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.

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

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advanced burn-in and reliability

Summary System Specifications

System Configuration

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

Power Supplies

	Low V	Standard V	High V
PSU1	0-5V @ 20A	0-20V @ 20A	0-100V @ 3A
PSU2	0-5V @ 20A	0-20V @ 20A	0-100V @ 3A
PSU3	0-5V @ 20A	0-20V @ 20A	0-100V @ 3A
PSU4	0-5V @ 20A	0-20V @ 20A	0-100V @ 3A
PSU5	0-5V @ 20A	0-20V @ 20A	0-100V @ 3A
VClk	0-5V @ 20A	0-16V @ 20A	0-16V @ 20A

PSU Accuracy

12 Bit Voltage Setability
8 Bit Current Setability
Accuracy 1% of set value
Ripple, Noise, Spikes 100mV max (Static load)
400mV Max (Dynamic Load 10% to 90%)

Monitoring

Over Voltage window range 0.1V to 5V
Over Voltage Accuracy 1%
Under Voltage window range 0.1V to 5V
Under Voltage Accuracy 1%
Over Current range 0.5A to Max. I of PSU
Over Current Accuracy 1%
Shutdown options on event failures

Clock Generator

8 free running programmable clocks
8 Bit resolution
Minimum vector time 50ns
Maximum vector time 12.8uS
Max pattern frequency 20Mhz

Main Vector Generator

16 Bit resolution
Minimum vector time 50ns
Maximum vector time 1.6384s
Max pattern frequency 20Mhz

Patterns

Up to 64 clocks (in 16 clock increments)
Maximum frequency 20Mhz
256k min pattern depth
Drive voltage 1-16V
Drive current 400mA
High, Low and Tri-State bit settings
8x8 bit loop counters

Software

Windows based software suite
Temperature control and profiling
PSU setup and sequencing
Pattern generation
Monitoring and readback
Off-line viewer
BIB code filtering
Data base management
Network capability of up to 8 systems

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UKAS QUALITY MANAGEMENT 015
CE

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