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 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

System Highlights

- *Mobile 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 unit with PC control for PSU, Clocks, data-logging, and monitoring. A built-in protocol interfaces with the chamber controller to setup temperature, humidity and pressure.

Summary System Specifications

System Overview

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
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
Dissipation 150W per module
Over & under voltage monitoring
Over current monitoring
Shut down on fail event

PSU Module Options

	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
PSU6	0-5V @ 20A	0-20V @ 20A	0-100V @ 3A

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

Main Vector Generator

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

Expansion Modules

SPI data analysis
Leakage current monitoring
Endurance testing
i-socket high power testing
i²C testing

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

nqa. ISO 9001 Registered
UKAS QUALITY MANAGEMENT 015
CE

Abrel Products

Raheen Business Park
Limerick
Rep of Ireland

Tel: +353 61 304566
Fax: +353 61 304567
Email: info@abrel.com
Web http://www.abrel.com