ORION TEST SYSTEMS & ENGINEERING

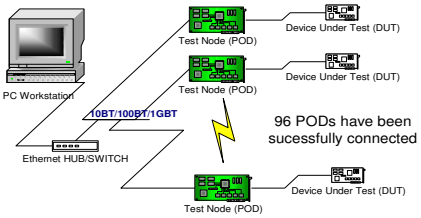
Real-Time Distributed Control

Real-Time Control System

Control motors and solenoids with a real-time PID loop running at 1 millisecond. We have proven applications for Throttle Body Control, High speed solenoid control, and various photographic applications. All provide minimal latency, robustness, excellent scalability, portability and cost savings.

Real-Time Test System for motors and solenoids

Our system utilizes a Motorola 5282 ColdFire processor board, sitting atop a custom load board and custom H-Bridge to form a test pod. Each device under test (DUT) is constantly monitored for CAN, analog and digital compliance Each pod then communicates via CAN or TCP/IP to the host PC for data storage and Graphical User Interface.



FEATURES

- **Custom PWM H-Bridge with ability to source 40 Amp continuously.**
- **On-board storage of data on an embedded FTP server.**
- **Data can be continuously monitored via TCP/IP, Serial, or UDP.**
- **Custom PC application real-time graphing and error band analysis**
- **CPC and Banana jack interface to Device Under Test**
- **External precision encoder input**
- **Portability:** The device is 6"x 10" x 3" or "9"x11"x3".
- **Up to 7 Relays to control external instruments**
- **Potentiometer for manual position adjust (if applicable)**
- **External input can be driven from a frequency generator**
- **Power Switch and Light**
- **User defined entries via Web Page for the following:**

Proportional, Integral and Differential parameters
Learn Min and Learn Max stops
Maximum and minimum current and voltage and position bands
User defined motion sequences including position, speed, and dwell

The Orion Advantage: **From Conception to Completion, Orion Test Systems & Engineering provides the finest services in Design, Development, and Customer Satisfaction.**

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