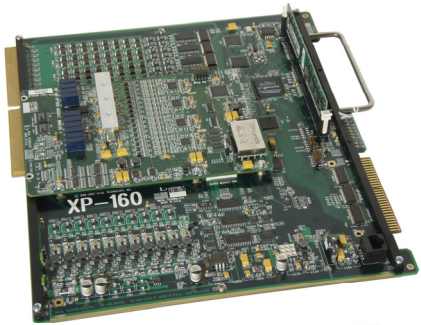


2x 8 slot System



XP-160 Driver & Analog Module



Compact Cube



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# 8160 System

## The SOC and mixed signal system

The Inspire Burn-in System is mainly used for testing SOC & mixed signal IC's. Every slot provides 144I/O (96+ drive, and up to 52 monitor channels), and 8 power supplies. This system supports Incal's 8160 style BIB. The standard oven is a DS 2x 8 slot system, though other options as well as Prescreen Stations are available.

### BIB Format

- 12.32"W x 23.85"L x 62mil thick
- BIB power supplies up to 8 (98A current) 2x @ 25A, 6x @ 8A ea
- 144 I/O per BIB (96+ drive and up to 52 monitoring channels)
- Supports Thermal Socket interface requirements

### 8 Power Sources

- Up to 32 Power Supplies controlled and Monitored
- Positive or negative voltage
- Sequencing and delays
- Under/Over Voltage shutdown
- Many power supplies to choose from GPIB or LXI interface standard
- Slot current monitoring

### 144 Drive & Monitor

- 25Mhz with 16Meg depth
- VOH: 0.5V to 5.5V
- 4-point Clock Skew/ RZ formatting on all channels
- Four types of monitoring available on all channels
- Opt Module: 16 analog channels

### Option Module Analog 1

- **16 independently configured channels**
- 20V P-P output swing
- Frequency 10Hz to 20MHz
- Phase Shift 1 degree resolution
- DC offset within +/-10v output Rail

### Inspire Application

- Runs natively on Windows 2K/XP
- Application controls/ monitors all aspect of Burn-in
- Recipe/Pattern Editors
- Built-in Logger for system events, temperature and lots
- Programmable logging interval
- GUI logic analyzer
- Color-coded fail monitoring

### 4:1 Architecture

- One Driver for 4 BIB
- Only 4 drivers for 2x 8 slot system
- Reduces system cost
- INCAL SST Backplanes
- Pass Marker allows driver to sample on one BIB for entire pattern length for effective monitoring

### System Configurations

#### Chambers:

- **Dual Stack** 8 Slot (x2), 75°C to 155°C *Multi Chamber*
- **HTOL** 56 slot & 28 slot, 75°C to 155°C
- **LTOL** (PTC) 24 slot, -55°C to 155°C

#### Prescreen Bench Options:

- Full Bench w/Fixture
- Compact Cube w/Fixture

