



Inspire 8160HX System

The High power SOC & mixed signal system

The 8160HX Burn-in system is mainly used for testing high power SOC & mixed signal IC's. Every slot provides 144I/O (96+ drive, and 48+ monitor channels), and multiple local per-DUT power supplies. Systems are available in 4 card modules or dual rack for up to 24 slots. Individual Temperature Control and Management are at the DUT level.

Features

- Localized core power delivery
- standardized 'Power Train' Modules (PT types) for flexible Application selection
- Factory trimmed V and I measurements for the highest possible accuracy for lot logging reports
- Voltage monitor is standard

Power Sources

- Up to 6 DUT Power Supplies controlled and Monitored
- Positive or negative voltage
- PT options
 - PT60, 8x 60A (0.65V to 2.5V)
 - PT40, 10x 40A (0.75V to 3.5V)
 - PT15, 16x 15A (0.85v to 5.5V)
- Slot/DUT current monitoring

Thermal Socket Configurations

- With TMA10's about 15pos +/-
- With TMA11B about 10-12 pos
- With TMA12's about 8 pos
- With TMA13's about 6 pos
- With TMA7x tray
 - depending on the matrix ~18pos
- Heat or Heat/Cool configurations

144 Drive & Monitor

- 25Mhz with 16Meg depth
- VOH: 0.5V to 5.5V
- 4-point Clock Skew/ R1-RZ formatting on all channels
- Four types of monitoring available on all channels
- Option Module: 16 Analog channels

Inspire Application

- Fully integrated thermal socket
- Runs natively on Windows XP/7
- Application controls/ monitors all aspects of Burn-in
- Recipe/Pattern Editors
- Built-in Logger for system events, temperature and lots
- Programmable logging interval
- Color-coded fail monitoring

4:1 Architecture

- Only 1 driver for 4 BIBs
- INCAL SST Backplanes

BIB Format

- 12.32"W x 23.85"L x 62mil thick
- 144 I/O per BIB (96+ drive and 48+ monitoring channels)
- Fully integrated thermal socket Power and Signal interface for iSocket
- Up to 480 watts per board with PT60 module

System Configurations

- Modular rack 8,12,16, and 24slots
- Compact Cube w/Fixture



Information may change at INCAL's discretion

Per DUT

- Temperature Control
- Core Voltage Delivery
- Core Current Measurement
- Device Power Measurement
- Estimated Die Temperature



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