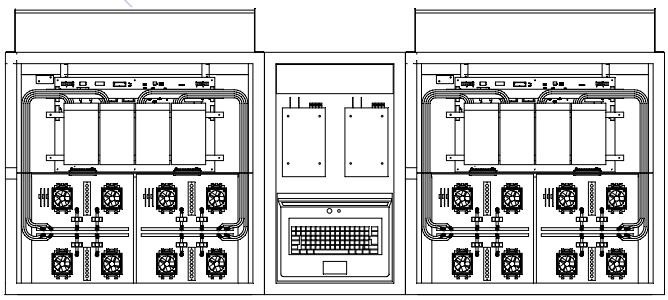
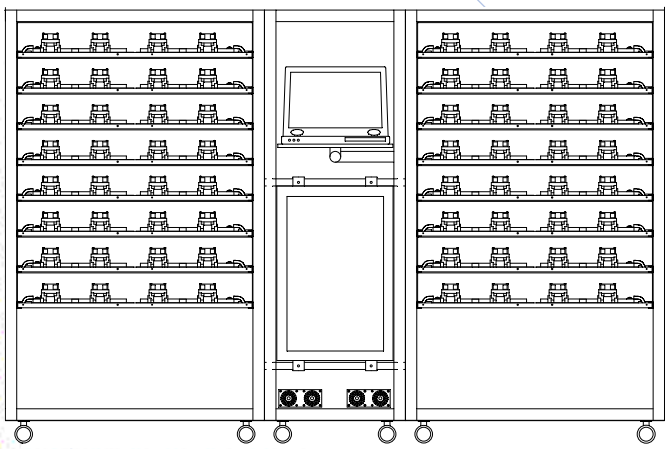
8000 Series High Power High Temperature Operating Life (HTOL) System

Today's low geometry semiconductor devices require a different approach to performing High Temperature Operating Life (HTOL) and "Burn-In". Core Leakage currents vary greatly between device die, even when from the same wafer, and are significantly higher than those of larger geometry devices. These leakage currents result in self-heating within the device and increased junction temperatures (Tj). In order to control the junction temperature to within acceptable limits and to increase product yield, it is necessary to control the temperature of each device independently. This is not possible in conventional chamber based HTOL systems.

The Reltech independent Test Laboratory is pleased to announce the latest addition to its portfolio of semiconductor qualification test systems. The Reltech 8000 series HTOL system incorporating iSocket™ technology, provides the highest level of thermal control possible for High Temperature Operating Life Testing and Burn-In of the very latest low geometry , high power semiconductor devices.



System Plan View



System Front View

Reltech 8116 HTOL System Features

- iSocket™ Technology
- Open Rack – Room Temperature (RTBI) non chamber design
- Individual DUT Temperature Measurement & Control
- DUT Monitoring with Auto shut down
- Multi DUT type HTOL Testing
- Remote System & HTOL monitoring
  - Customer access via VPN

Independent Test Laboratory

Reltech LIMITED

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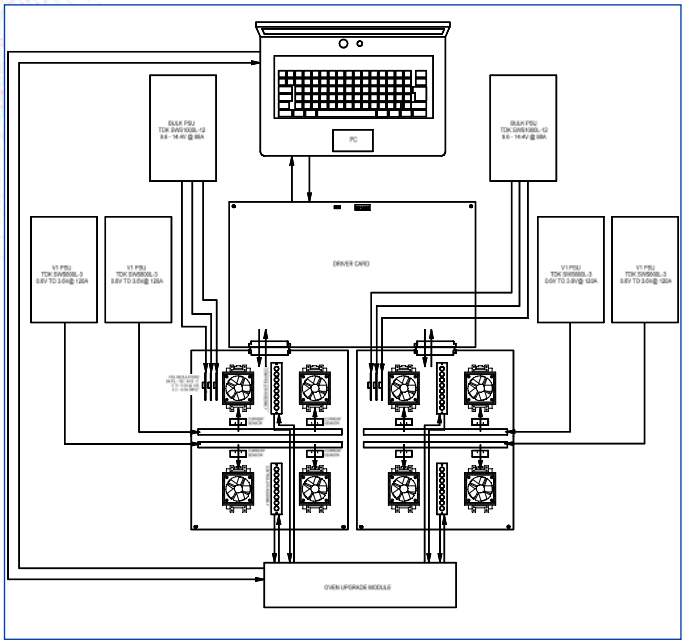
HTOL System Configuration

- Capacity: 16 HTOL Tray Slots
- DUT Capacity: Typical 16 x8 = 128 DUT's
- DUT Power : up to 65W per DUT
- I/O: 192 (2 x 96 way IDC)
- Signal Zones: 16 - 1 per Driver Card Slot
- Power Zones: 16 - 1 per HTOL Tray



DUT Power Supplies per HTOL Tray

PSU	Qty	Volts	Current
V1	4	0.6v-3.6v	120A
V2	2	0.75v- 5.0v	10A
V3	2	0.75v- 5.0v	10A
V4	2	0.75v- 5.0v	10A

Reltech 8116 HTOL System MIDAS™ Dynamic Driver Card

- 24 Vector channels
- 5MHz - Vector frequency
- 2 Voh levels – 1.0v – 5v
- 20 DUT signal monitor channels
- 8Mb Vector depth
- 200mA driver per channel
- Vector looping
- Test programme conversion

Real Time Monitoring Functions

- DUT Case Temperature (Tc)
- DUT Junction Temperature (Tj)
- Voltage Monitoring: V1-V4 per group of 4 DUT's with auto shut down of all 4 DUT's
- Current Monitoring: PSU 1-4 per DUT with auto shut down of all 4 DUT's
- Monitoring frequency: 100mS
- DUT shut down time: 1.0S
- DUT Monitoring: 20 channels (typically 1 per DUT) Hi, LO or Activity)

Our Representatives in Israel

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UKAS TESTING

Accredited to
ISO/IEC 17025:2005

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