



**MIMOS
SERVICES**

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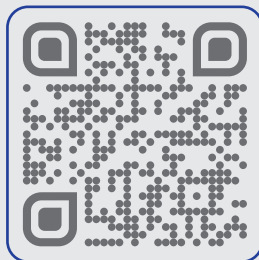
MIMOS RELIABILITY LAB

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CONTACT US

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**STRATEGIC
TESTING
PROVIDER**



www.mimos-services.my

-  MIMOS Semiconductor and Microelectronics Systems
-  mimoservices
-  MIMOS Services
-  MIMOS Nano Semiconductor Technology

- **ABOUT MIMOS RELIABILITY LAB**
Deliver an internationally-compliant reliability testing services, supporting industries and academia in validating product performance under real-world and extreme environmental conditions.
- **ACCREDITATIONS & STANDARDS COMPLIANCE**
 - MS ISO/IEC17025 : 2017
 - ISO 9001 : 2015
 - Proton/Geely 3rd Party Testing Lab
- **INDUSTRY-SPECIFIC TESTING STANDARDS**
 - Consumer Electronics : IEC 60068
 - Automotive : ISO 16750
 - Military & Ruggedized Electronics : MIL-STD-810
 - Maritime Electronics : IEC 60945
 - Aerospace & Avionics : RTCA D0-160
 - Semiconductors : JEDEC

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CORE SERVICES AND CAPABILITIES



► CLIMATIC TESTING

- High Temperature ($\leq 300^{\circ}\text{C}$)
- Cold Temperature ($\leq -70^{\circ}\text{C}$)
- Temperature/Humidity Cycling (-70°C to 180°C , and $\leq 98\%\text{RH}$)
- Thermal Shock (-70°C to 180°C)
- High Humidity Condensation ($\leq 95^{\circ}\text{C}$, $\leq 98\%\text{RH}$)
- Salt Spray Corrosion (ISO 9227, ASTM B117, IEC60068, Mil-Std-810)
- Rain (Mil-Std-810 Method 506)
- Xenon Arc Weathering (ISO 4892-2, ASTM G155)



► ELECTRICAL & EMC TESTING

- Electrical Safety Compliance (IEC60601/ IEC61010)
- Electromagnetic Compatibility (EMC) Immunity Test (IEC61000)
 - ~ Electrostatic Discharge (ESD)
 - ~ Burst / Electrical Fast Transient (EFT)
 - ~ Surge
 - ~ Magnetic Field
 - ~ Voltage Dip / Drop / Interruption

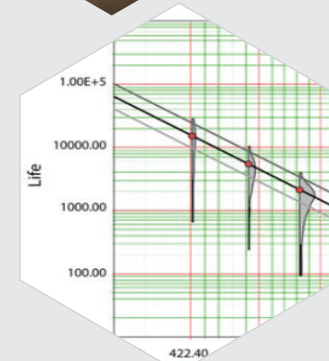
► APPLICATION-SPECIFIC TESTING

- Mechanical Endurance
- Bench Handling Shocks
- Chemical Resistance Test
- Cyclic Latch-unlatch



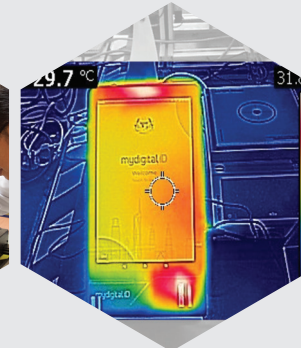
► PRODUCT LIFETIME VALIDATION TESTING

- Aging / Shelf-life Test (Weibull Degradation Analysis)
- Discovery Test (Potential Failure Modes)
- Accelerated Life Test (Estimate Product Service Life)
- Reliability Demonstration Test (Warranty Validation)



► MECHANICAL TESTING

- 3-Axis Vibration (5-2000Hz, $\leq 52\text{mm p-p}$, 50KN for sine, random, shock and resonance search)
- Integrated Temperature/Humidity / Vibration (-50°C to 150°C , $\leq 98\%\text{RH}$ and $\leq 50\text{G}$)
- Drop Test ($\leq 2\text{m}$ height, onto concrete, steel, wood)
- Ingress Protection (IP) Rating (IEC60529: IPX4-IPX8 and IP1X-IP6X tests.)
- Autoclave (105°C to 150°C , 2 bar, $\leq 100\%\text{RH}$)



► ANALYTIC INSTRUMENTATION

- Universal Data Logger
- 3D Measuring Smart-scope
- High-Speed Camera
- Thermal Imaging System
- Sound Level Meter
- Bluetooth Vibration with Temperature Sensor