Pbts®
TECHNOLOGY

TECHNICAL DATA SHEET

# AUTOMATED BURN-IN BOARD SIGNAL CHECKER

**Ensuring Signal Integrity, Empowering Reliable Burn-In**

An advanced testing solution designed to verify and monitor the integrity of signals across burn-in boards used in semiconductor device reliability testing. This system ensures that all input and output signals of the BIB are functioning correctly before and during burn-in processes, reducing failure rates and enhancing test accuracy.



## TECHNICAL DATA

| Specification | Details |
|---|---|
| Supported Burn-In Board Types | Standard and custom BIBs, up to 256 pins (expandable upon request) |
| Signal Type | Digital I/O signals, selectable voltage levels |
| Input Voltage Range | 0V to 5V DC (configurable per customer requirement) |
| Voltage Accuracy | ± 0.05 V |
| Detection Capabilities | Open circuit, short circuit, misrouted signal, missing signal |
| Test Pattern | Programmable test sequences and custom pattern support |
| Test Speed | <1 second per pin (typical) |
| Monitoring Channels | Multi-channel parallel testing (up to 64 channels simultaneous monitoring standard; expandable) |
| Connectivity | USB / Ethernet |
| Data Logging | Built-in storage for up to 100,000 test records; exportable in Excel format |

## PRODUCT INFO

The Automated Burn-In Board Signal Checker is a precision-engineered solution designed to automatically test and validate the electrical signals of burn-in boards used in semiconductor device reliability and stress testing. The system provides fast, accurate detection of signal anomalies—including opens, shorts, and incorrect routing—before and during burn-in operations. It helps ensure high-quality, error-free burn-in processes, reducing costly failures and rework.

## PRODUCT FEATURES

- Automatic verification of BIB input/output signals
- Detection of opens, shorts, and miswirings
- Monitoring of voltage levels and signal sequences
- Support for custom test patters and signal sequences
- Data logging with easy export to reports
- Real-time fault alerting
- Optional integration with existing burn-in oven monitoring systems.