

Upgrade to FrameScan™ FX

Act now and save when upgrading TestStation equipment to FrameScan FX vectorless test technology

KEY FEATURES

- Improved fault coverage of new device packages
- Reliable measurements – eliminate false diagnostics
- Greater immunity to noisy environments
- Simple upgrade to best-in-class vectorless test measurement capability



FrameScan FX hardware upgrade includes a new active probe with a low-noise high-gain amplifier.

Attention TestStation users. Upgrade to the industry's most advanced vectorless test technology and save. This is a limited-time introductory offer to upgrade to FrameScan FX and maximize your test investment.

Why FrameScan FX

Higher quality is assured because FrameScan FX significantly increases fault coverage and measurement strength (See Figures 1 & 2). When testing PCBs containing μ BGA packages and next-generation connectors, FrameScan FX will improve coverage up to 40% compared to passive solutions. FrameScan FX uses active pickup plates, each mounted with high-performance buffer amplifiers. This technique tests for open pins by applying an AC signal to an unpowered PCB node and measuring the voltage coupled to a plate positioned near the DUT or connector.

FrameScan FX improves measurement reliability and virtually eliminates false failures/passes. FrameScan FX measurements average six to eight times higher than those of Opens Xpress™ (some pins measured as much as 70 times higher). No other solution can outperform FrameScan FX.

Hardware and Software Improvements

Upgrade hardware includes a new low-noise op amp circuit that increases the front-end gain of the active probe and minimizes the effects of noise upon other stages of the measurement circuit. Software improvements include an automatic Precision Mode that increases the number of low-amplitude measurement samples.

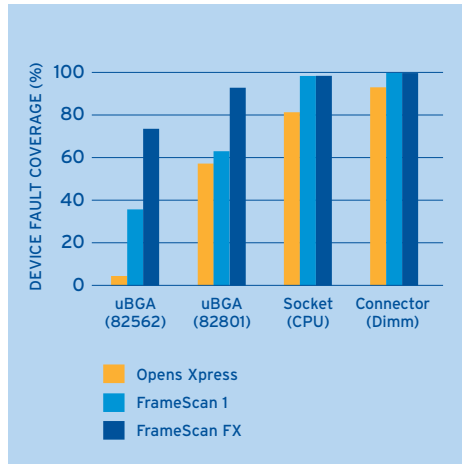


Figure 1: Device Fault Coverage
Results of study conducted by Teradyne with leading OEM and EMS companies. Comparison of fault coverage capabilities of Opens Xpress, FrameScan, and FrameScan FX.

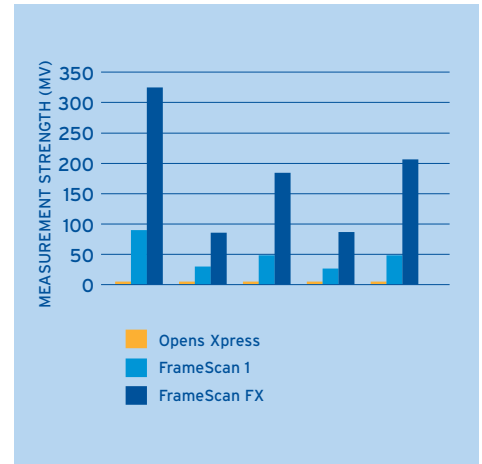


Figure 2: Per-Pin Voltage Measurement
Comparison of measured signal strength of Opens Xpress, FrameScan and FrameScan FX.

MINIMUM TESTSTATION REQUIREMENTS TO SUPPORT FRAMESCAN FX:

- Navigate 5.9.0 software
- Opens Xpress/FrameScan license
- Fixed power supply (+15V or +12V)
- FrameScan FX amplifier per each device under test
- FrameScan multiplexing board (1 per fixture)
- Ultrapin 12x pinboards

How it Works

FrameScan senses the voltage coupled to the capacitive plate for each pin and automatically sets appropriate voltage thresholds. During production testing, any test pin measured below the minimum learned voltage threshold is reported as open. This capacitive opens technique is popular with test programmers because it is an unpowered technique, fast to implement, precise for accurate pin diagnostics, and it does not require the creation of complicated test vectors. For more technical information, visit www.teradyne.com/ict/teststation-in-circuit-test/framescan.html

For Additional Information

Contact your local sales office or our Parts Department at **978-370-1221** or **atd-parts-sales@teradyne.com**



Because Technology Never Stops

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