

Release Notes

NX System Release 3

October 22, 2004

Component Versions

NX System Release 3 consists of the following component versions:

- NX Editor Version: 1.0.4.66
- NX Tester Firmware Version: 1.4.58

Dependencies

- Test programs created with NX Editor Version 1.0.4.67 or later can only be executed on NX Testers equipped with Firmware Version 1.4.50 (issued in Release 2) or later.
- Programs created in the NX Editor prior to Version 1.0.3.62 must be loaded and resaved in a later version of the NX Editor before the program will run on Firmware Version 2.0.67 or later.

New Features and Enhancements

NX System Release 3 contains the following new features and enhancements:

- Automatic program selection using a bar code scanner - The NX Tester now supports automatic program selection using a bar code scanner. With the scanner connected to serial port 2, and the NX Tester at the main menu, the user can scan a bar code that represents a program name or a part number, and the NX Tester will automatically select and run the test program by matching the scanned data with a program name or with a part number imbedded in a test program. More details are provided in the NX Tester User's Guide.
- Support for serial ports 3 and 4 – The optional communications board provides two additional serial ports. The NX Tester's firmware has been updated to support communications via these optional serial ports.
- Serial ports hardware handshaking – Hardware handshaking is now the default setting for all serial ports. It can be modified if required. The serial port configuration has been modified to display the handshaking settings: 'HW' for hardware or 'NONE' for no handshaking.
- Extended Display – the NX Tester's firmware has been updated to support the Extended Display. Since the Extended Display provides 2 lines x 20 characters, and the NX Tester's default display is 4 lines x 20 characters, the messages on the Extended Display are abbreviated.
- Extended resistor testing range – previously, the maximum resistor value that could be tested was 100K ohms. Now, the NX tester can test resistors up to 2Meg ohms in value. Testing accuracy is +/-1%.
- Capacitor testing – the NX Tester now supports testing of capacitors. Capacitor testing range is 100pf (picoFarad) to 500uF (microFarad). Capacitor testing accuracy is dependent upon the type of dielectric, as shown in the following table:

Accuracy	Range	Dielectric type
+/- 5%, +/-10pF	100pF to 500uF	Tantalum, Aluminum Electrolytic, NPO/COG Ceramic, Mica, Polystyrene, Polycarbonate, Polyester.
+/- 15%, +/- 10pF	100pF to 1uF	X7R Ceramic, 5ZU Ceramic
+/- 20%, +/- 10pF	100pF to 500uF	Other dielectrics



Bug Fixes

NX System Release 3 includes fixes for the following problems:

- When transferring all files from the memory card to the tester, the transfer process hangs.
- Cannot transfer a file from the tester to the memory card that contains a space in the file name.
- Importation of multiple diodes from a PASS program's secondary netlist failed
- File download caused problems in Chinese Windows 2000
- NX Editor allows commas imbedded in wire colors

Dependencies

- Test programs created with NX Editor Version 1.0.4.66 can be executed on NX Testers equipped with Firmware Version 1.4.50 or later.
- NX Testers equipped with Firmware Version 1.4.58 can execute test programs created with NX Editor Version 1.0.4.66 as well as programs created with earlier versions of the NX Editor.