



Features

Upgrade Obsolete Tektronix VXI Products

Direct Connector Pin-out and Software Compatibility for Select Models

Switch to VXIbus Modules that will be Supported for 10 to 15 years

Maintain Existing Test Programs

Maintain Existing Interface Adapters

Reduce the Cost of Your ATE

Tektronix VXI Replacement Program

Overview

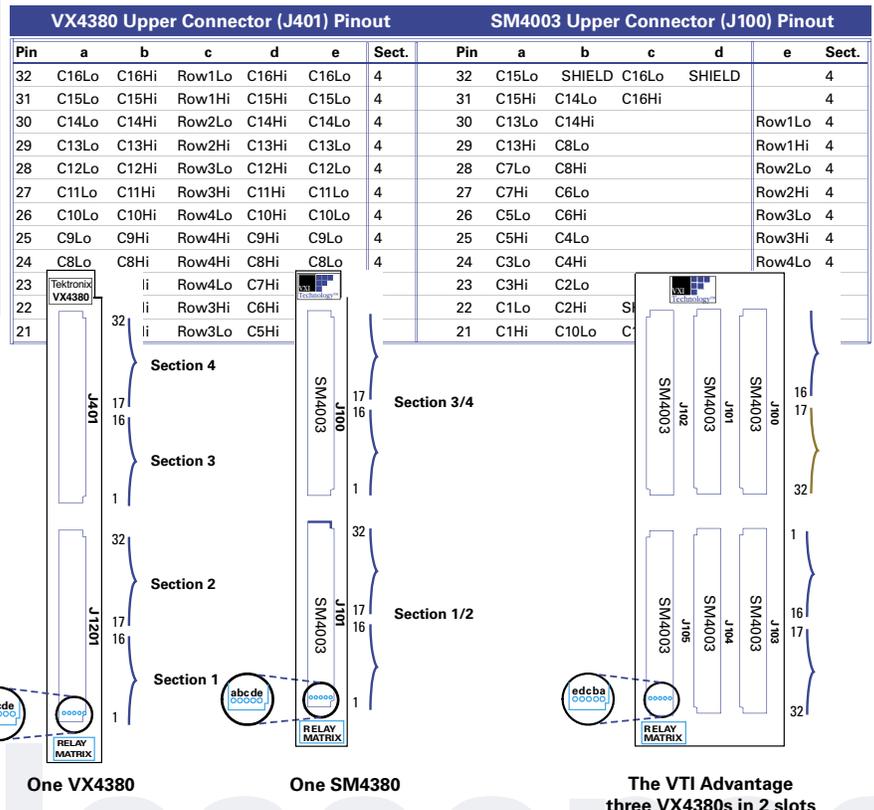
On May 31, 2001, Tektronix discontinued manufacture of their general purpose VXI modules. This left users who have standardized on certain Tektronix products, or have ATE built around these Tektronix products, with "ATE Obsolescence issues."

Changing from these Tektronix products to an alternative family of products would traditionally require a large investment that would involve:

- Test program re-writes or translation. This can get very costly depending on the number of fielded test programs
- Test adapter re-engineering
- Re-verification of new test programs
- Cross-referenced products

The ideal approach would be to re-design the test station utilizing products from manufacturers who are aggressively designing and marketing products with similar functionality. Since this approach may not be financially viable, VXI Technology created a program that allows specific Tektronix products to be replaced with functionally superior products that will be supported for at least the next 10 to 15 years.

Figure 1



Tektronix VXI Replacement Program

This program enables existing Tektronix VXI product users to continue building systems with minimal engineering impact, and yet provide an upgrade path that can fully utilize the benefits of our line of modular switches and instruments. These benefits include higher-density and performance, improved signal integrity, faster system throughput and lower overall system cost.

The Tektronix VXI replacement program is the result of years of providing solutions to replace obsolete test equipment and switching systems, along with the direct experience in creating cross-referenced products, translation drivers, and translation wiring diagrams for the majority of the Tektronix products that have become obsolete.

The cross-referenced products that are part of this program all come with translation driver source code and connector cross-reference documentation, minimizing engineering efforts associated with switching products. Some products also have pin-for-pin compatibility. In addition, we also provide functionally similar products to other obsolete Tektronix VXI products. These products do not come with cross-reference documentation or translation drivers, but these can be provided upon request.

There are two main aspects associated with replacing obsolete instruments or switching systems: hardware interfacing and software programming. The issues associated with the hardware interface concern the cabling/wiring from the switch/instrument to the interface adapter that connects the unit under test (UUT). Our cross-referenced products come with Excel spreadsheets and documentation that provide a pin-for-pin map between the obsolete Tektronix hardware and its equivalent replacement. An example is shown in Figure 1.

We can also provide complete cable assemblies/subsystems from our instruments/switches under one part number, completely eliminating any internal engineering. Minimizing the impact on existing application software becomes more difficult. Our cross-referenced products come with translation drivers that replace the existing Tektronix drivers. These translation drivers map the key function calls to the obsolete Tektronix hardware directly to our cross-referenced product (Figure 2a and 2b). These drivers are provided with all source code so that users can modify or code additional functions.

VXI Technology's line of award-winning instruments and switching systems is modular in design, providing considerably higher densities and performance than the obsolete Tektronix hardware. Slot space and cost can also be reduced, providing greater expandability or functionality in the ATE system, while still maintaining backward compatibility. Our application engineers can help provide resources for a solution if required.

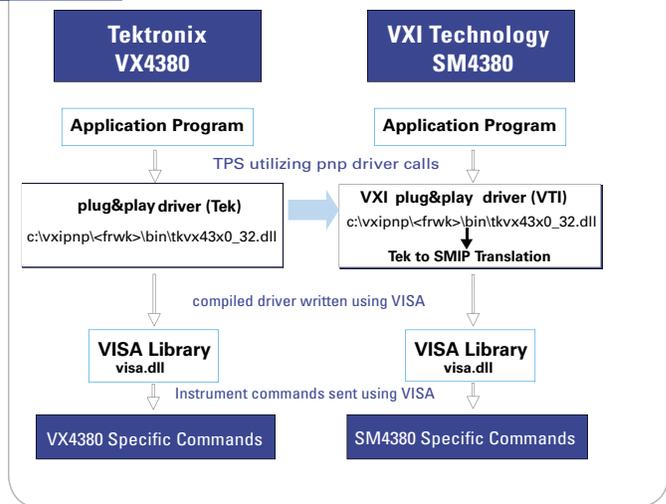
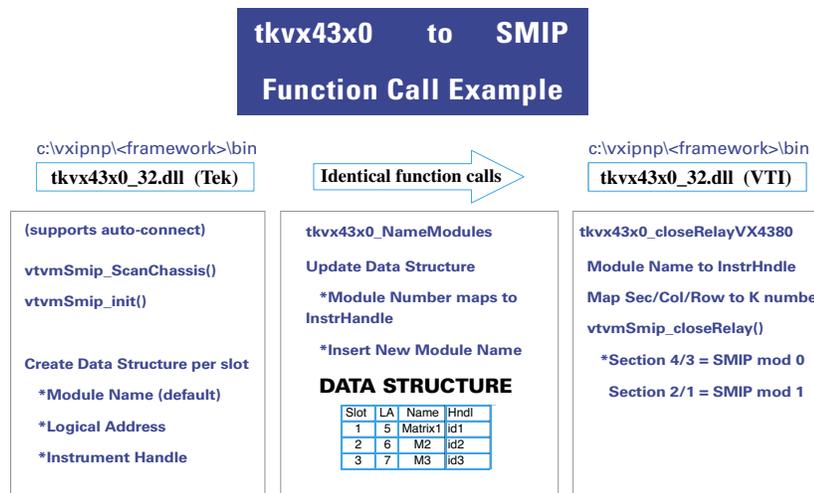


Figure 2a

Figure 2b



Cross-referenced Products with Replacement Driver

| Signal Switching | Old Tektronix VXI Products | VXI Technology |
|--------------------------------|-----------------------------------|-------------------------------------|
| 1.3 GHz 8(1x4) | VX4320 | SM4320-SMB (pin for pin compatible) |
| 1x120 2-wire MUX | VX4330 | SM4330A (pin for pin compatible) |
| 64-Ch. SPST | VX4350 | SM4350A (pin for pin compatible) |
| 40-Ch. 10 A SPST | VX4351 | SM4351A (pin for pin compatible) |
| 32-Ch. of SPDT | VX4357 | SM4357A (pin for pin compatible) |
| 256-Crosspoint Switch Matrix | VX4380 | SM4380-03 |
| Chassis | | |
| 6-Slot Chassis | VX1406 | CT-100C |
| 13-Slot Chassis | VX1401 | CT-400 |
| 13-Slot Chassis | VX1410A | CT-400 |
| 13-Slot Chassis | VX1411A | CT-400 |
| 13-Slot Chassis | VX1420A | CT-400 |
| Instruments | | |
| 48-Ch. of Isolated Digital I/O | VX4801 | SM4801 |
| 80-Ch. of Digital I/O | VX4802 | SM4802 |
| 80-Ch. Open Collector Outputs | 73A308 | SM73A308 |
| Counter/5.5 Digit DMM/I-O | VX4101A | VT4101A |
| ARINC 429 Quad Interface | VX4428 | AXI429-8 |

Functionally Equivalent Product

| Signal Switching | | |
|--|---------|----------------|
| 2-wire 1x40 | VX4332 | SMP3001 |
| 4-wire 1x24 | VX4334 | SMP3001 |
| 32-ch SPST | VX4353 | SM4357A |
| 24-ch SPDT | VX4355 | SMP5001 |
| 24-ch DPST | VX4355 | SMP5001 |
| 20-ch DPDT | VX4356 | SMP5004 (2) |
| 32-ch SPST | VX4363 | SMP5005 |
| 24-ch DPST | VX4365 | SMP5004 (2) |
| 20-ch DPDT | VX4366 | SMP5004 (2) |
| 32-ch SPDT | VX4367 | SM4357A |
| 8x16 2-wire Matrix | VX4385 | SMP4004 |
| Instrumentation | | |
| Timer/Counter | VX4223 | VM2164 |
| Timer/Counter | VX4224 | VM2164 |
| Universal Digitizing Counter | 73A451 | VM2164 |
| DMM | VX4234 | VM2710A |
| DMM | VX4236 | VM2710A |
| DMM | VX4237 | VM2710A |
| Analog/Digital Comparator/Event Detector | VX4286 | VM4016 (2) |
| Analog/Digital Comparator/Event Detector | VX4287 | VM4016 (2) |
| Arbitrary Pattern/Pulse Generator | 73A270 | VM3640A |
| 25 MHz Function Generator | VX4750 | VM3640A |
| 25 MHz Arb Generator | VX4790A | VM3640A |
| 250 MSa/s Arb Generator | VX4792 | VM3640A |
| Multi-channel A/D | VX4244 | VM2616 |
| 12-channel, 16-bit DAC Card | VX4730 | VM3616A |
| Programmable Resistance | VX4342 | VM7004/SMP7600 |
| MIL-STD-1553A/B Bus Monitor | VX4457A | AXI1553-1 |
| Prototyping Module w/VXI Interface | 73A451 | VT7064 |
| Prototyping Module | 73A452 | VT7064 |
| Optical Attenuator | VXOA41 | SM8101 |
| Mass Storage Controller | VX4570 | VT2216A |
| GPIB Slot Zero Controller | VX4521 | GPIB-VXI/C |