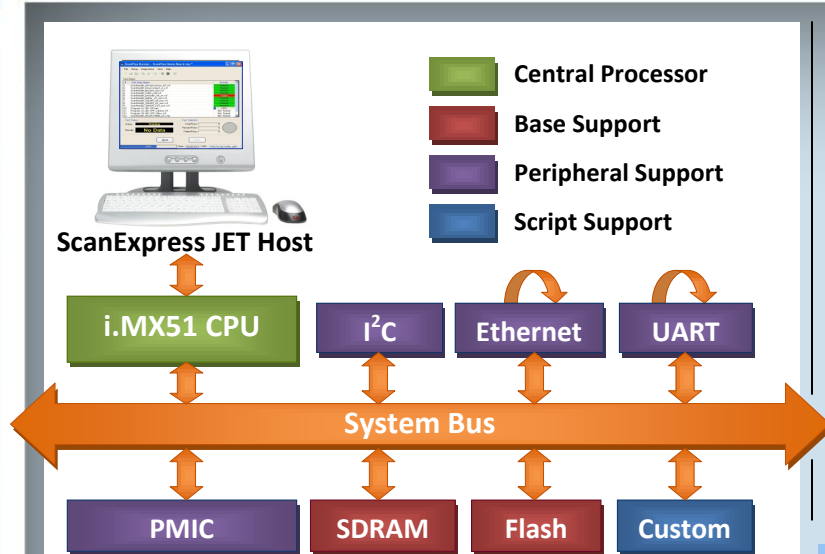


Freescale i.MX51 CPU Support

For ScanExpress JET™



Preferred Functional Test Solutions—Acclaimed Technical Support



Embedded systems built around the powerful and versatile i.MX51 applications processor rely on their strong central core to manage and control the surrounding peripherals, providing performance and efficiency for the most demanding applications. Why not leverage that same power to functionally test, verify, and program these peripherals—at speed and without requiring costly fixtures?

Corelis ScanExpress JET™ utilizes the i.MX51 JTAG port to take full control of the ARM Cortex™-A8 core, enabling fast and easy test development and execution of full Corelis functional test suite for supported peripherals.

Standard Tests

Freescale i.MX51 CPU Support for ScanExpress JET includes automatic test generation for commonly used peripherals.

- **CPU Initialization**—Test basic communication and functions of the CPU.
- **SDRAM**—Execute a full suite of at-speed SDRAM tests to catch hard-to-find faults.
- **NAND Flash and Serial NOR Flash**—Test and program Flash using maximum CPU clock speed.
- **I²C Discovery**—Scan the I²C bus to identify and communicate with connected devices.
- **UART Loopback**—Verify UART communication via a simple loopback cable.
- **Ethernet Loopback**—Test Ethernet functions using a simple loopback cable.
- **Power Management IC (PMIC)**—Ensure that the power management system is fully functional.

Custom Tests

- The ScanExpress JET development system includes a powerful scripting language and integrated script debugger; write your own tests or load compiled code right from the JET integrated development environment.

Ordering Information

Part Number - 20730

- JET Family Support Package for Freescale i.MX51 Processors.

Part Number - 20700

- ScanExpress JET Test Development System supporting both Test Program Generation and Execution.

Note: At least one CPU support package must be purchased with the ScanExpress JET Test Development System.

For more information about this product, visit the ScanExpress JET website at:

<http://www.corelis.com/JET>

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Learn More: For more information about Corelis products, please visit www.corelis.com

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