MotoPlus™ SDK is a software development kit for specialized control and monitoring of the robot system. It features a set of programming tools for developing custom application tasks to run directly on the robot controller concurrently with the standard software. These tasks run in real time to control and/or monitor the robot with maximum performance. The target system that runs the robot controller is VxWorks RTOS (Real Time Operating System). Development is done in native C for minimal overhead.

This full-featured package comes with all the tools necessary for application development. The custom Integrated Development Environment (IDE) sets all of the compiler settings, as well as manages your project files so you don’t have to. Along with extensive documentation, there is a collection of example programs available to help any programmer get started.

**Features**

- Enables development of applications for integration with nearly any device.
- Uses native C for maximum real-time performance and includes a wealth of standard libraries.
- Extensive documentation for full description of the SDK.
- Allows users to program off-line using a PC.
- Includes an easy-to-use Integrated Development Environment (IDE) designed specifically for creation of MotoPlus programs.
  - Project tree for managing source files/folders
  - Syntax highlighting editor
  - Auto-complete list with parameter tool-tips
  - Built-in compiler
  - Debug terminal viewer
- Sample source code to get started.
- Comprehensive API calls for control of the robotic system.
  - Multi-tasking communication
  - Full Ethernet network control
  - Serial (RS232C) communication
  - File control
  - Position and motion monitor/control
  - I/O monitor/control
  - Robot jobs monitor/control
  - System alarm monitor/control
  - And more...
- No additional hardware or development tools are required.
- Application program is executed as a task on the main CPU of the robot controller.
- Fast execution speeds are achieved by using native instructions of the CPU.
- The included API (Application Program Interface) allows access to data transmission (via Ethernet or RS232C serial) and control of all robot functions.
- Correction of position of the robot can be easily performed through an external PC or sensors.

**Requirements**

- DX100 robot controller with MotoPlus capable system software (ex 1.45.xxA-03)
- PC with Windows® XP (Service Pack 2) - Windows 7
- Microsoft .NET Framework 3.5 (Installer included)

**Compatibility**

- DX100 controller
- NX100 controller

**TOP 3 REASONS TO BUY!**

- Provides realtime access and communication with the controller
- Enables interaction with any computing device
- Can be used to embed complex algorithms for data in a C programming environment

**HIGHLIGHTS**