

National Instruments MATRIXx Price List

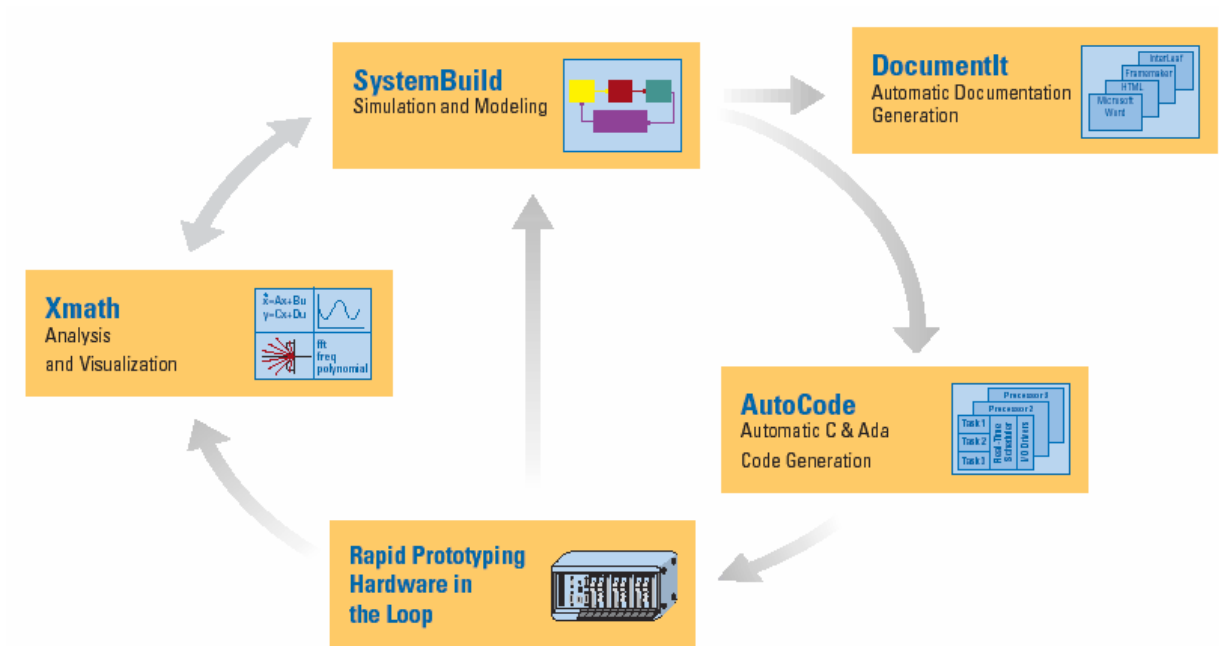


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NI MATRIXx

NI MATRIXx is an integrated suite of software tools for modeling and dynamic simulation, analysis, control design, and automatic code generation. The MATRIXx product family consists of four central components: Xmath, SystemBuild, AutoCode, and DocumentIt, with additional advanced software modules.

PRODUCT DESCRIPTIONS

Xmath: Design and Analysis

Xmath is a mathematical analysis package with graphical data visualization, object-oriented scripting language, and extensive libraries of predefined functions to speed design. The Xmath modules are described below.

- **Control Design Module** – a complete set of tools for MIMO (multiple input, multiple output), continuous, and discrete domain control design and analysis
- **Robust Control Module** – a set of tools based on modern robust control design theory, including tools for analyzing, designing, and evaluating the performance of robust controls systems
- **Model Reduction Module** – a collection of tools for reducing the order of system models
- **X μ Module** – a library of advanced multivariable robust control routines emphasizing controller design and synthesis
- **Interactive Control Design Module (ICDM)** – a collection of classical and modern control design and analysis tools for SISO (single input, single output) and MIMO systems
- **Interactive System Identification Module (ISIM)** – a set of tools for interactively identifying system models based on measurement data.
- **Optimization Module** – tools based on the Karmarkar algorithm for solving a wide variety of optimization problems
- **Signal Analysis Module** – a library of functions and commands for generating, analyzing, and displaying signals and systems

SystemBuild: Modeling and Simulation

SystemBuild enables users to accurately represent real world problems, develop designs, simulate, and verify results using one integrated environment. SystemBuild follows the standard Windows and Motif user interface and provides ease-of-use features such as a catalog browser, searchable online manuals, and online help. The SystemBuild modules and interfaces are described below.

- **State Transition Diagrams Module** – adds graphical creation and execution of finite state machines
- **HyperBuild Module** – accelerates SystemBuild simulations; requires C compiler
- **RT/Fuzzy Logic Module** – a complete development environment for designing and simulation real-time fuzzy logic applications
- **Neural Networks Module** – an interactive tool for the design, modeling, and simulation of artificial neural networks
- **Interactive Animation Module** – provides ability to create, edit, and operate displays for interacting with and monitoring SystemBuild-based models
- **Configuration Management Module** – provides ability to directly check files in and out of a code management tool including Microsoft Visual SourceSafe, PVCS, and ClearCase

PRODUCT DESCRIPTIONS (continued)
SystemBuild Modules (continued)

- **Aerospace Libraries Module** – collection of pre-built, user-accessible SystemBuild block diagrams including standard aerospace environmental, six-degree-of-freedom, and attitude geometry models
- **Altia Design Module** – allows product engineers to quickly design user interfaces, producing interactive software prototypes that can accelerate development cycles
- **Altia Faceplate Module** – includes numerous libraries of components for quickly creating a user interface to SystemBuild simulations and a state-of-the-art editor for creating custom graphical panels

AutoCode: Real-Time Code Generator Products

AutoCode automatically generates real-time C or Ada source code from SystemBuild block diagrams. The generated code is highly optimized for size or speed depending on the selected optimization parameters. AutoCode modules include:

- **AutoCode C** – C source code generator with support for standard C data types.
 - **AutoCode C Fixed-Point Module** – support for C code generation with fixed-point data types
 - **AutoCode C Multi-processor Module** – support for C code generation optimized for use on multi-processor machines
- **AutoCode Ada** – Ada source code generator with support for standard Ada data types.
 - **AutoCode Ada Fixed-Point Module** – support for Ada code generation with fixed-point data types
 - **AutoCode Ada Multi-processor Module** – support for Ada code generation optimized for use on multi-processor machines

DocumentIt: Automatic Documentation Generator

The DocumentIt tool extracts selected information from the SystemBuild graphical specifications and inserts it into user configurable documentation. Use it to generate software specifications and design documents that comply with industry and company-wide standards – thereby speeding the integration of MATRIXx into your company's existing process. With DocumentIt, you can enter specific documentation information at the design stage. Then, a user-defined template file extracts this and all other model information and produces an output file in any ASCII interchangeable format. DocumentIt includes customizable templates for FrameMaker, Interleaf, Microsoft Word, and HTML.

ADDITIONAL PRODUCT NOTES

1. National Instruments did not acquire the RealSim hardware and is not offering support for any of the RealSim software. Customers with previously licensed RealSim software may renew their RealSim software licenses free of charge in addition to SSP renewal for the remainder of their MATRIXx software. Please contact National Instruments to discuss alternative hardware options and 3rd party contacts for RealSim software and hardware support.
2. National Instruments did not acquire the licenses for and is not offering the DynaMo Diesel Engine Module or the BetterState Module.

PRICES

Prices are for node-locked MATRIXx 6.3 and 7.1 software for PC or Sun Solaris platforms. Users can also request earlier versions and the requests will be filled whenever possible. Please contact your sales representative or call (877) 493-2404 for pricing for floating (concurrent) license options.

| Product | Price (U.S. Dollars) ^{1,2} |
|---|-------------------------------------|
| Xmath | \$1,695.00 |
| Control Design Module | \$795.00 |
| Robust Control Module | \$1,195.00 |
| Optimization Module | \$1,195.00 |
| Model Reduction Module | \$1,195.00 |
| X μ Module | \$1,195.00 |
| Interactive System Identification Module | \$1,195.00 |
| Interactive Control Design Module | \$1,195.00 |
| Signal Analysis Module | \$1,195.00 |
| SystemBuild *requires Xmath | \$3,995.00 |
| State Transition Diagrams | \$1,195.00 |
| HyperBuild | \$1,195.00 |
| RT/Fuzzy Logic | \$1,195.00 |
| Neural Networks | \$1,195.00 |
| Interactive Animation | \$1,195.00 |
| Configuration Management | \$995.00 |
| Aerospace Libraries | \$1,195.00 |
| Altia Faceplate - Node-Locked (maintenance only) ^{3,4} | \$795.00 |
| Altia Design - Node-Locked ⁴ | \$9,995.00 |
| AutoCode C Single Processor *requires Xmath and SystemBuild | \$14,995.00 |
| C Fixed-Point Extension | \$2,995.00 |
| C Multiprocessor Extension | \$2,995.00 |
| AutoCode Ada Single Processor *requires Xmath and SystemBuild | \$18,995.00 |
| Ada Fixed-Point Extension | \$4,995.00 |
| Ada Multiprocessor Extension | \$4,995.00 |
| DocumentIt *requires Xmath and SystemBuild | \$2,995.00 |

Notes:

1. Initial purchase price includes one year of the MATRIXx Software Subscription Program (SSP).
2. Prices are only applicable to customers in the United States and U.S. territories who are taking delivery in the United States or U.S. territories. Customers outside the United States or U.S. territories should contact their local National Instruments sales offices for applicable prices and terms.
3. Altia Faceplate is available for maintenance renewal only for previously licensed customers. New copies of Altia Faceplate are not available for purchase.
4. Discounted maintenance prices are available for Altia Faceplate and Altia Design for previously licensed customers through September 28, 2003.

LICENSING OPTIONSNode-Locked

A node-locked license is restricted to a specific node and can be installed and used on that single computer.

Floating (Concurrent)

A floating (concurrent) license allows use of the product by a specified number of concurrent users on any computer on a local area network that includes a server running a single license manager. This type of license can be configured for use with a triple-redundant server system.

MATRIXx STANDARD SERVICE PROGRAM (SSP)

The MATRIXx Standard Service Program (SSP) is designed to give you premium maintenance services, priority technical support, and automatic updates of your software package. Customers who are current SSP subscribers will receive product updates and technical support. The price for one year of MATRIXx SSP is calculated as 20% of the original price of all licensed software components.

NI will honor up to one year of current, existing unexpired software maintenance services that were purchased prior to NI's ownership of MATRIXx. If you allow your software maintenance/SSP to lapse, you can resubscribe by purchasing SSP for the lapsed maintenance term in addition to your one-year subscription.

PLATFORM TRANSFER FEE

A US\$500 fee will be charged for a workstation change (same license transferred from one workstation family to another), a node-lock change (same license transferred from one node to another), or an upgrade from single floating license server to triple-redundant floating license server. The fee will cover the cost of the new media and the new key(s).

MATRIXx TRAINING

National Instruments is pleased to offer MATRIXx training for new and current users alike. Two levels of training are available to fit your skill level.

MATRIXx Basics is a three-day course targeted at new MATRIXx users. This course prepares you to use the entire MATRIXx family. The student will learn how to build and analyze models, run simulations, compare simulation results, and generate and execute AutoCode in non real-time.

MATRIXx Advanced is a two-day course for current MATRIXx users. It will prepare you to use the advanced features of MATRIXx, enabling you to tailor the software to your specific project needs.

ORDERING INFORMATION

When inquiring about MATRIXx, please refer to the following part numbers

| | |
|-----------|--|
| 860620-01 | MATRIXx Development System (new license) |
| 860621-01 | MATRIXx Standard Service Program (SSP) |
| 910657-xx | MATRIXx Basics 3-day Training Course |
| 910658-xx | MATRIXx Advanced 2-day Training Course |

(-xx refers to the location of the courses: (-01) NI's corporate headquarters or branch office, (-11) a regional location, (-21) onsite)

MATRIXx, Xmath, SystemBuild, AutoCode, and DocumentIt are trademarks of National Instruments Corporation.
Prices subject to change without notice.