KW MULTIPROG®

IEC-61131-3 SoftLogic Control Software

Features

- IEC 61131-3 Programming languages
- Intuitive programming with a clear project structure
- Cross-compiling: FBD, LD and IL can be cross-compiled to each other
- Multi user functionality shortens programming time
- Management of distributed controls
- Network variables: Easy and powerful configuration of distributed communication
- Powerful debugging tools: Online changes, PLC simulation, Overwriting & forcing, breakpoints, watch windows & recipes, Logic analyzer, and cross reference.

Introduction

MULTIPROG® supports all IEC 61131-3 programming languages. Depending on the task to be handled, your experience and company standards, you may choose one of the five standardized programming languages. The use of MULTIPROG offers you many advantages. Our long-term experience in the automation industry guarantees you a sophisticated software product.

The open architecture of MULTIPROG provides a new direction in the creation of automation software. MULTIPROG Automation Interface guarantees consistent data. Via the automation interface, MULTIPROG opens its data for other tools. MULTIPROG allows external creation and modification of its project data. Furthermore, specific attributes can be added. As all essential data can be displayed in MULTIPROG, frequent switching between different tools during PLC programming and commissioning is no longer necessary. Observers guarantee data consistence with other tools, thus the engineering effort for the programming of PLCs is reduced.

Reliability by Experience

KW MULTIPROG is based on an embedded softlogic controller that has been applied in the automation industry since 1991. With over 250,000 runtime installations worldwide, a sophisticated and reliable product is available which is continuously adapted to new technologies.

Specifications

Hardware Requirements

Device	Minimum	Recommended
IBM compatible PC with Pentium Processor	200 MHz	350 MHz
System RAM	64 MB	128 MB
Hard Disk	60 MB free memory space	
CD-ROM drive		
VGA Monitor Color Settings Resolution	256 colors 800 x 600	True color 1024 x 768
RS-232 interface	Optional	
Mouse	Recommended	

Advantech Hardware Supported

- ADAM-5550KW Series
- ADAM-5510KW Series
- UNO-2171KW
- AMAX-2050KW

Software Requirements

- Microsoft® Windows NT 4.0 SP5 or Windows 2000/XP
- Microsoft Internet Explorer 5.02 or above

IEC 61131-3 Programming Languages (all supported)

- Instruction List (IL)
- Structured Text (ST)
- Function Block Diagram (FBD)
- Ladder Diagram (LD)
- Sequential Function Chart (SFC)
- All programming languages can be mixed within one project

Ordering Information

- **MPROG-BAS33**   KW Multiprog Softlogic Development Kit Basic Edition v3.3 for Windows NT/2000/XP (128-byte I/O)
- **MPROG-ADV33**   KW Multiprog Softlogic Development Kit Advanced Edition v3.3 for Windows NT/2000/XP (64k-byte I/O)
- **PROCON-NTOPC20**   KW ProConOS OPC Server Runtime License V 1.12 for Windows NT/2000/XP (ADAM-5510KW Series is not supported)
- **PROCON-CEOPC20**   KW ProConOS OPC Server Runtime License v2.0 for Windows CE.NET (ADAM-5510KW Series is not supported)

KW for Programmable Automation Controllers

Advantech Programmable Automation Controller (PAC) solution leverages KW-Software's Multiprog and ProConOS as the single developing tool and SoftLogic control kernel. It requires only a one-time design, and then can easily leverage the control know-how into different control platforms to meet versatile automation projects needs. KW SoftLogic also creates single tagging database and HMI Software, such as Advantech Studio, shares the same tagging database by OPC server under Windows CE operating system. All the features can help users to save the visible and invisible cost.

Industry Standard IEC 61131-3 Programming

For faster time-to-market and reduced support costs, take advantage of programming support for the five globally recognized PLC languages: Ladder Diagram, Function Block, Sequential Function Chart, Structured Text, and Instruction List. Develop your application in any one of the five languages, or use any combination that fits your development needs.

Real-time Logic Execution

Programmable Automation Controllers offers real-time, deterministic execution of your application code down to 1 milli-second resolution. Take advantage of Programmable Automation Controllers optimized logic runtime engine that automatically complies your IEC-61131 application code for maximum performance. Programmable Automation Controllers brings the benefits of real-time control to a cost effective, so you can take advantage of local real-time control with a wide range of remote monitoring and management features. All this integrated into one package!

Integrated Development Environment

Programmable Automation Controllers brings integrated programming of logic and HMI to simplify programming and maintenance tasks. Integrated and synchronized database management eliminates the need to create and track multiple database items for HMI and logic programs, with the benefits of reduced programming time and fewer startup errors for your project. And, take advantage of Programmable Automation Controllers powerful on-line debugging tools to quickly track down and correct programming errors.

Broad Range of I/O Support

The Programmable Automation Controllers product series offers flexible I/O support to meet a wide range of application requirements. Take advantage of Programmable Automation Controllers powerful integrated HMI and logic functions in combination with an array of distributed serial and Ethernet I/O products, or choose a platform with fully integrated I/O for maximum performance and cost effectiveness.

Automatic Remote Handling of Events & Alarms via Email

Programmable Automation Controllers support alarm and event handling. Track local conditions and generate reports based on time, event, or exception conditions, then automatically issue reports or alarms via e-mail worldwide! By monitoring conditions and trends in real time, Programmable Automation Controllers offers the possibility to predict failures before they cause service interruptions or lost production. Protect and optimize the investment in your machine, process, or facility with Programmable Automation Controllers.

Browser-only Client for Remote Monitoring

With Programmable Automation Controllers use Internet Explorer or Netscape browser software to remotely (via Intranet or Internet) monitor or control your machine, process, or facility. This offers true "zero cost" remote access with full security capability, so you can efficiently monitor and troubleshoot from anywhere in the world. Take advantage of this feature to lower your service costs and reduce or eliminate downtime.

Open Interfaces for Maximum Flexibility

Take advantage of the open architecture of the Programmable Automation Controllers with support for standard connectivity interfaces like OPC, XML, and SQL. Easily integrate standard information technologies into your existing factory or building network structure and take advantage of the benefits of local control with global connectivity!

Programmable Automation Controllers