



DEVELOPER TOOLKIT

PROCONOS® 3.3

Within the last 10 years hundreds of system engineers worldwide have successfully used the ProConOS® Developer Toolkit to rapidly create a control system for their target hardware.

Since the kernel of ProConOS® is hardware and platform independent a control with high reliability and high performance can be created easily with the ProConOS® Developer Toolkit.

The ProConOS® Developer Toolkit allows to extend and customize ProConOS® to a specific target hardware and to integrate additional functionalities on the base of the rich ProConOS® API (Application programmers interface). The toolkit includes a developer manual with a detailed description of all API functions.

With this API a developer is able to use the following features:

- Integration of non-volatile (Retain) memory
- Integration of I/O drivers
- Integration of firmware function blocks and firmware functions
- Integration of specific communication drivers
- Integration of file device drivers
- Integration of ProConOS® system hooks
- Use of process data directory functionality
- Integration of shared memory sections
- Using interfaces to change ProConOS® state (run, stop, on)

Besides the standard platforms (see backside), the ProConOS® Developer Toolkit is also already available for further platforms like PowerPC or SH03 on request.

PRODUCT DESCRIPTION

ProConOS® library

The ProConOS® kernel is provided in an object library format. The delivered libraries are compiled and linked for specific combinations of CPU, operating system and compiler.

Main module and public header in source

A template of the main routine is available as source code for the starting of ProConOS® as well as the definition of the ProConOS® API functions.

Build Template

Templates for compiling and linking are delivered, to accelerate the build phase of a ProConOS® executable.

Documentation (PDF): Developers Manual and Manual

A complete documentation in English language of the ProConOS® API functions as well as of the operational behavior of ProConOS® give a detailed description.

DEVELOPMENT REQUIREMENTS

The development environment of the platform system (compiler, linker, debugger, see backside) is needed in addition to the ProConOS® Developer Toolkit.

In case of using ProConOS® Win CE, ActiveSync™ is needed for communication between the desktop PC and the CE device.

MULTIPROG® CUSTOMIZATION TOOLKIT

Part of the ProConOS® Developer Toolkit is the MULTIPROG® customization toolkit which contains all necessary tools and documentation to adapt the ProConOS® specific extensions to the programming system MULTIPROG® (e.g. firmware tool including examples).

RUNTIME LICENSES

The toolkit includes one runtime license each of MULTIPROG® Pro, ProConOS® Embedded, ProConOS® OPC-Server and ProConOS® Gateway.

SYSTEM SPECIFICATION

Requirements	Developer Toolkit	Realtime OS	Processor	Development Environment
	Win RT	Windows NT4.0 ⁽¹⁾ Windows 2000/XP ⁽¹⁾	i86.32	MS Visual Studio 6.0 (Win NT) MS Visual Studio 7.0 (Win 2000/XP) SoftICE v2.7 (NT) / v3.0 (2000/XP) MS DDK (OS dependent)
	Win CE 3.0/4.0/Intel	Windows CE 3.x or 4.x	i86.32	MS Embedded Tools 3.0 (Win CE 3) MS Embedded Tools 4.0 (Win CE 4) SDK (Device dependent)
	Win CE 3.0/4.0/ARM	Windows CE 3.x or 4.x	StrongARM, XScale	MS Embedded Tools 3.0 (Win CE 3) MS Embedded Tools 4.0 (Win CE 4) SDK (Device dependent)
	VxWorks 5.4/5.5/Intel	VxWorks 5.4 or 5.5	i86.32	Tornado 2.0 (VxWorks 5.4) Tornado 2.2 (VxWorks 5.5)

⁽¹⁾ Including KW-Software Realtime Extension

SCOPE OF SUPPLY

- CD ROM containing the following components:
 - ProConOS[®] library
 - Main module and public header as source code
 - Build Template
 - Documentation : ProConOS[®] Developers Manual and ProConOS[®] Manual as PDF files
 - Installation Guide, Application Guide and Quick Start Guide
- MULTIPROG[®] Customization Toolkit
- License agreement for ProConOS[®] Toolkit
- 1 runtime license MULTIPROG[®] Pro
- 1 runtime license ProConOS[®]
- 1 runtime license ProConOS[®] OPC-Server
- 1 runtime license ProConOS[®] Gateway

ORDERING INFORMATION

Order number	Designation
1-2033-2001-200-E00	ProConOS 3.3 Developer Toolkit Win RT
1-2033-2001-300-E00	ProConOS 3.3 Developer Toolkit Win CE 3.0/Intel
1-2033-2001-310-E00	ProConOS 3.3 Developer Toolkit Win CE 3.0/ARM
1-2033-2001-400-E00	ProConOS 3.3 Developer Toolkit Win CE 4.0/Intel ^(On request)
1-2033-2001-401-E00	ProConOS 3.3 Developer Toolkit Win CE 4.1/Intel
1-2033-2001-402-E00	ProConOS 3.3 Developer Toolkit Win CE 4.2/Intel
1-2033-2001-410-E00	ProConOS 3.3 Developer Toolkit Win CE 4.0/ARM
1-2033-2001-411-E00	ProConOS 3.3 Developer Toolkit Win CE 4.1/ARM ^(On request)
1-2033-2001-412-E00	ProConOS 3.3 Developer Toolkit Win CE 4.2/ARM
1-2033-2001-500-E00	ProConOS 3.3 Developer Toolkit VxWorks 5.4/Intel
1-2033-2001-501-E00	ProConOS 3.3 Developer Toolkit VxWorks 5.5/Intel

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