

# ***Application Development Guide***

**UMI-R3-101**



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## Application Development Guide (Front Pages)

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001	First release.	99-07

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# Components

The Application Development Guide is composed of the following separate documents.

[Application Development](#)  
[umi-r3-111](#)

Developing an application using all tools and utilities in an integrated way.

[Application Environment](#)  
[umi-r3-131](#)

The environment of application development: robot components, co-ordinate systems, robot motion, etc.

[Teach Pendant](#)  
[umi-r3-141](#)

Details on the teach pendant, the hand-held device used to move the arm and teach locations.

[Robcomm3](#)  
[umi-r3-151](#)

Details on computer-based software that is the integrated development environment for editing, compiling, and sending programs.

[Firmware Download Utility](#)  
[umi-r3-156](#)

Details on the utility to re-load firmware to a controller from a computer.

[Application Shell \(ash\)](#)  
[umi-r3-161](#)

Details on the application shell, a command line utility used to move the arm and teach locations. Re-named to AshPro SI.

[Terminal Editor](#)  
[umi-r3-166](#)

Details on the editor available through the terminal used to edit programs and other files on the controller..

[CROS and System Shell](#)  
[umi-r3-171](#)

Details on the operating system and the operating system commands.

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Mach Operating System

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