



RoweBots

## Software Data Sheet

### Unison RTOS version 4

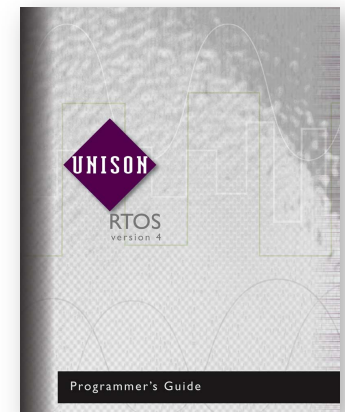
### for NXP Semiconductors

### LPC ARM Cortex M3

[www.rowebots.com](http://www.rowebots.com)

## Features

- Ultra tiny embedded Linux™ or POSIX™ compatible RTOS
- Open Standards
- Open Source
- LPC ARM Cortex M3
- Complete integrated development using CodeSourcery Sourcery G++ and Eclipse
- Seamless integration of target components
- POSIX Nano Kernel
  - Fast
  - Tiny
  - Compliance tested
- Total Integrated I/O
  - Networking options
  - Serial I/O
  - File Systems
  - Bus Support
  - Touch Screen and Graphics
- Tiny footprint software components
- Off the shelf evaluation board support
- Single click install
- Complete documentation including:
  - Index and Release Notes
  - Tutorial Guide for Unison V4
  - Programmer's Guide for Unison V4
  - Reference Guide for Unison V4
  - Quickstart Guide featuring 20+ demos to get you up and running in 10 minutes
- FREE source code
- FREE development
- Royalty FREE with low volume licences
- Interface compatible with DSPnano V2



## Overview

The key benefits from this approach are significant for developers.

1. Unison is an ultra tiny Linux or POSIX compatible RTOS with complete System on Chip (SoC) support for 32 bit processors. It eliminates training and supports standards based development on tiny processors where other Linux variants or larger RTOS solutions don't run.
2. Unison provides integrated support for evaluation modules, and an IDE based on CodeSourcery Sourcery G++ with integrated compiler, assembler, linker, librarian, in circuit emulation and Eclipse. Users can create and execute a new project in minutes without errors or configuration issues. It is fast and easy to learn and to use!
3. Integrated software components with complete I/O can save significant time in OEM application development. Today, all systems are networked in some way and the integration of Unison along with various networking support, serial support and more will allow them to build whatever they need quickly.
4. With a single click install on Windows®, Unison is always simple to deploy and get people started without questions or early difficulties. A **Quickstart Guide**, which includes 20+ demos, ensures that you are up and running instantly.
5. With extensive documentation which walks the user through the system from conceptual understanding of the system through to actual hands on operation on standard hardware, users come up to speed quickly and develop confidence with the system before encountering more challenging problems.
6. Interface compatibility with other Unison V4 versions or DSPnano V2 versions which provides seamless upgrade and downgrade paths to more or less powerful processors without source code changes.

### Supported Hosts

- Windows XP™
- Windows Vista™

### Supported Processors

- LPC
- ARM Cortex M3

### Software Version

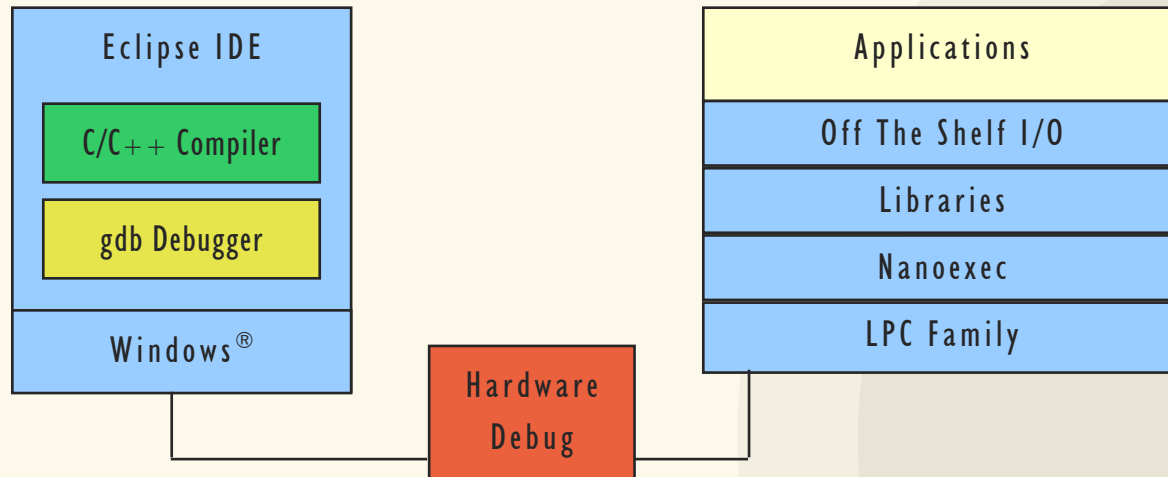
- Unison V4

### Availability

- Production
- Q4, 2009



## Unison Operating System Architecture



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