



RoweBots  
Research Inc.

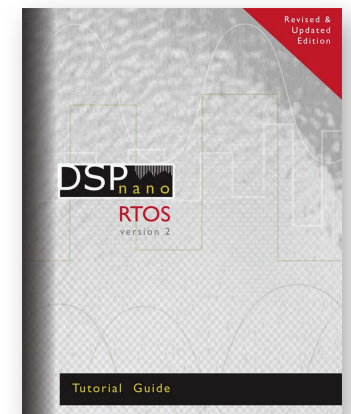
## Software Data Sheet

# DSPnano RTOS version 2

## for Renesas M16

### Features

- Tiny Tiny Embedded Linux or POSIX compatible RTOS
- Open Standards
- Open Source
- Complete integrated development using M16 Family HEW
- Fully operational in minutes
- 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
- Tiny footprint software components
- Off the shelf evaluation board support
- Single click install
- Complete documentation including:
  - Index and Release Notes
  - Tutorial Guide for DSPnano
  - Programmer's Guide for DSPnano
  - Reference Guide for DSPnano
- FREE source code
- FREE development
- Royalty FREE with low volume licences
- Interface compatible with Unison V4



## Overview

The key benefits from this approach are significant for developers.

1. DSPnano is a tiny tiny Linux or POSIX compatible RTOS with complete System on Chip (SoC) support. It eliminates training and supports standards based development on tiny processors where other Linux variants or larger RTOS solutions don't run.
2. DSPnano provides integrated support for Explorer 16 and PICtail boards, and an IDE based on MPLAB with integrated compiler, assembler, linker, librarian, in circuit emulation and optional jtag debugging. Users can create and execute a new project in minutes without errors or configuration issues. It is fast and easy to use and learn!
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 DSPexec 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, DSPnano is always simple to deploy and get people started without questions or early difficulties.
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 Unison V4 which runs on the PIC32 provides seamless upgrade and downgrade paths to more or less powerful processors without source code changes.

### Supported Hosts

- Windows XP™
- Windows Vista™

### Supported Processors

- M16 Family

### Software Version

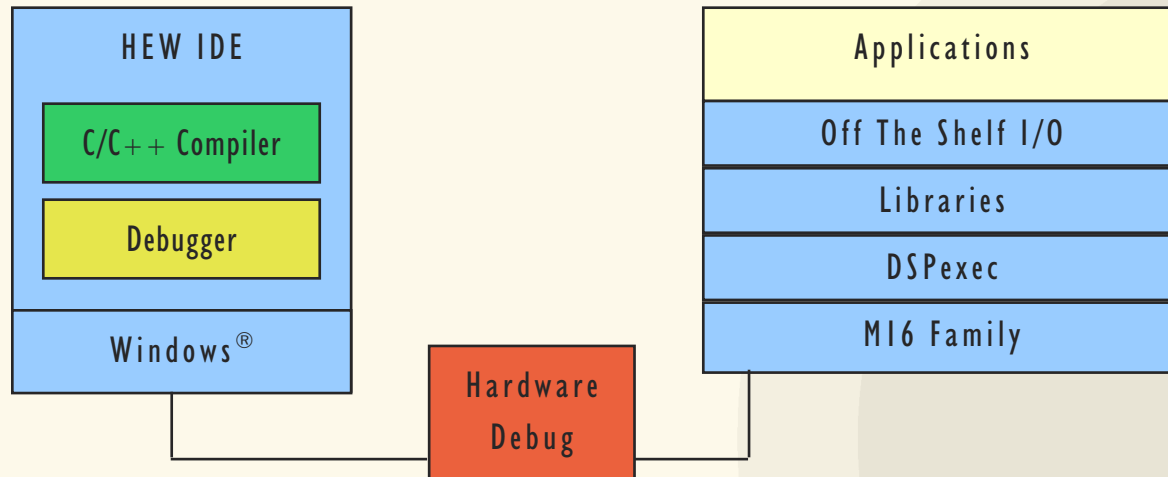
- DSPnano V2

### Availability

- Beta
- Q4, 2008



## DSPnano Operating System Architecture



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