

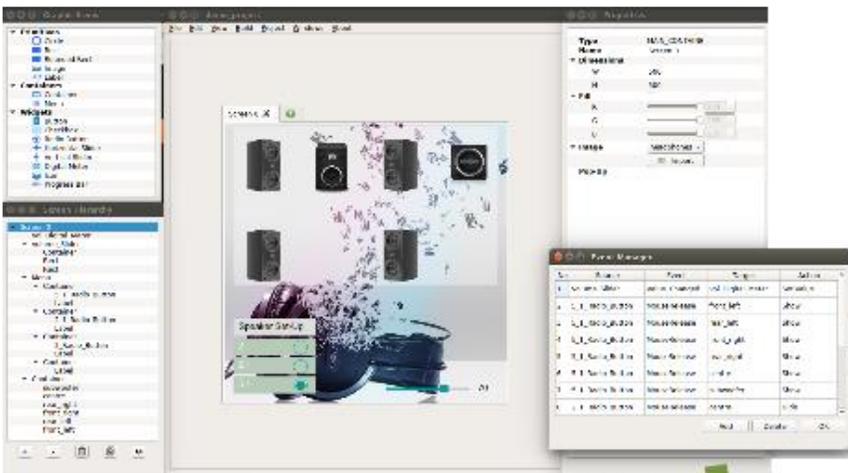
NEMA®|GUI-Builder

A graphical Toolkit for Building Embedded GUIs on Resource Limited Devices

NEMA®|GUI toolkit is a graphical cross-platform software framework that enables rapid Graphical User Interface (GUI) development on low resource hardware, taking advantage the full benefits of Nema products (GPUs & Display processors) of Think Silicon S.A. The framework includes smooth navigation capabilities and is ideal for touch screens.

NEMA®|GUI toolkit provides a library of basic and advanced GUI Widgets utilized for constructing high-quality, smooth and interactive graphical interfaces. The programmer can test the output screen in his/her host PC reducing in this way the development time of embedded GUI building by an order of magnitude. NEMA®|GUI toolkit relies on NEMA®|GFX-API, a high-quality and low power graphics API of the company. However, due to the simplicity of the tool there is no need for the end users to know details about the underlying graphics API.

The framework automatically produces performance optimized C code with small memory footprint making extensive use of the 3D features of NEMA® GPUs.



Features List

- Friendly UI with drag-n-drop capabilities
- Ideal for resource constrained environments
- User interaction
- Support for touch screens
- Hierarchical organization of GUI widgets
- Automatic code generation
- Performance-optimized code
- Power-optimized code
- Advanced image handling
 - Color conversion
 - Smart image handlers
- Limitless object number
- Multiple hardware target
- Multiple OS targets
- BareMetal support
- Small Memory footprint optimization

NEMA®|GUI Widgets

NEMA®|GUI toolkit provides a large set of widgets commonly needed to develop graphical applications, like buttons, text fields, sliders, frames, labels, etc. that handle the user interaction during application runtime. These widgets are able to be instantly integrated in the final application in a drag-n-drop fashion.



Power Benefits

NEMA®|GUI toolkit supports power-aware code generation that takes advantage of the target hardware. It allows the programmer to estimate any resource-related restrictions, including detailed calculations of the image-data and the executable file-size. The toolkit supports the proprietary TSc compression/decompression algorithms (i.e. image and framebuffer compression). Unlike other similar libraries, NEMA®|GUI toolkit exposes a large number of parameters from the underlying API/Library, thus facilitating programmers on becoming fully aware of the whole set of parameters that may be tempered to further increase power efficiency and robustness of embedded interfaces.

Value Proposition

NEMA®|GUI toolkit is fully compatible with the rest of Think Silicon products. Using NEMA®|GUI, our customers are able to create outstanding graphical interfaces and smooth animations, in a fast and efficient manner, without any compromise in terms of performance and features.

System Requirements

- OS: Windows 7 32/64-bit (or newer), Linux (Ubuntu 32/64-bit)
- Screen resolution: 800x600 or higher
- RAM: at least 256MB
- Hard Drive: 50MB available space

Components

- Buttons (Radio, Label, Icon)
- Labels
- CheckBoxes
- Widgets
- Rectangles
- Circles
- Sliders (Horizontal, Vertical)
- Containers
- Image
- Digital meter
- Progress Bar
- Gauge
- Circular progress
- Watch face

Operations

- Transparency
- Blending & Clipping
- Animations
- Anti-aliasing support
- Screen navigation
- Image/framebuffer compression
- Opacity
- Transition effects

General:

info@think-silicon.com

Sale inquiries

sales@think-silicon.com

Corporate Headquarters

Patras Science Park
Rion Achaia
Greece 26504
Tel: + 30 2610 911543

North America

Ulli Mueller
Toronto
Canada
Tel: + 1 647.824.2006

