

Bsquare HTML5 Rendering Engine

Leverage proven technology with a robust HTML5 rendering framework for your embedded system

Highlights

- **High performance HTML5 framework for ARM and x86 platforms using Windows® Embedded Compact operating systems**
- **Improve customer satisfaction with fast HTML rendering and JavaScript® performance**
- **Establish an HTML5 platform that empowers development teams to quickly develop, customize, and port User Interfaces and applications across platforms**
- **Reduce development risk and cost**



Industry Trend

Embedded developers in many industries including automotive, mobile devices, point-of-service kiosk, industrial automation, handheld terminals and smartphones are developing with HTML5. HTML5 provides several advantages in embedded devices. HTML5 can provide end users the feature-rich experiences they seek. Because HTML5 is flexible, it is easier to port HTML5 applications and User Interfaces (UIs) between different hardware, operating systems and software platforms. It is also easy to skin or customize these applications and UIs to create unique user experiences. Using HTML5 can also reduce product development and maintenance costs. Finally, HTML5 can help extend the product life cycle and help protect platforms against future technology shifts.

However, development teams face challenges when deploying the HTML5 rendering framework necessary to realize these benefits:

- Developing the necessary skills and background in embedded HTML5 is time consuming.
- The Microsoft® Windows® Embedded Compact platforms do not provide native HTML5 support.
- Developing a reliable embedded HTML5 framework can be difficult.
- Adequately separating proprietary code from open source components is challenging.

The Solution

The Bsquare HTML5 Rendering Engine is a powerful technology that gives embedded developers the power to create the robust and engaging UIs and applications that users demand while helping to protect your proprietary code.

This robust HTML5 and JavaScript environment allows OEMs



Bsquare was awarded the Microsoft 2012 Americas Windows Embedded Partner Excellence Award for technical excellence for the Bsquare HTML5 Rendering Engine.

Benefits

Protect your IP

The Bsquare HTML5 Rendering Engine helps developers separate proprietary code from the open-source components of WebKit, the world's most popular HTML5 layout engine.

Reduce project risk and cost

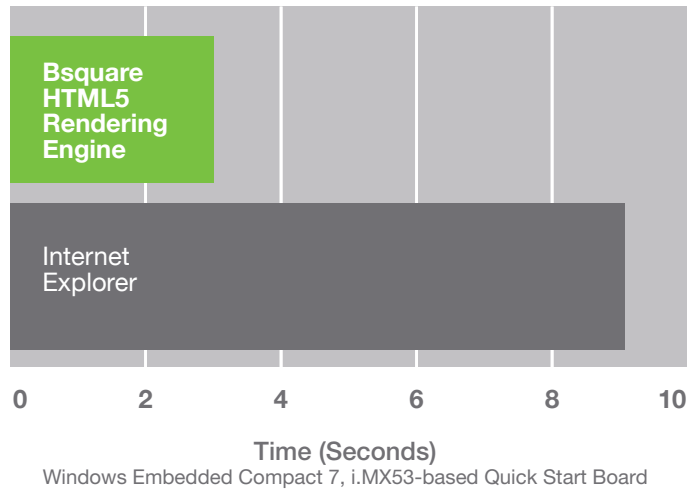
The Bsquare HTML5 Rendering Engine reduces project risk and cost by providing a full, robust HTML5 rendering framework.

Future-proof devices

The HTML5 Rendering Engine provides cross-platform compatibility that helps extend product life and protect against future technology shifts.

developing with the Windows Embedded Compact platforms to streamline development and future-proof their devices. The high performance product is compatible with ARM and x86 platforms using Windows® Embedded CE 6.0 and Windows® Embedded Compact 7 and can be customized for other platforms by Bsquare Professional Services.

HTML5 Rendering Engine Performance



Key Product Features

- Audio/Video support using DirectShow - Develop applications with Audio and Video components
- OpenGL ES, WebGL, and 2D Canvas support - Use hardware accelerating resources to maximize rendering performance
- CSS 3D support - Increase graphics rendering capability
- SIP Auto show/hide support - Enable automatic soft keyboard
- JavaScript Extensions – Develop custom access to system resources
- Cairo graphics optimization – Provides fast rendering on Windows Embedded platforms
- ARM Neon optimization – Accelerate graphics processing on Windows Embedded platforms
- Mobile and desktop mode API support – Load either mobile or desktop web pages
- Canvas Support – Render any custom UI
- Supports “metro-like” application shell – Create Microsoft metro-style look and feel
- HTML5 Style Skinnable Browser – Create customized browser chrome
- Webworkers support — Increase web page responsiveness

Supported Platforms

- ARM
- x86

Supported Operating Systems

- Windows Embedded CE 6.0
- Windows Embedded Compact 7

For additional information about the Bsquare HTML5 Rendering engine — including a complete list of features and operating system support, email us at sales@bsquare.com.

Reference Release

- Optimized for evaluation on the BeagleBoard-xM
- Windows Embedded Compact 7
- Optimized for evaluation on the Toradex T20

Why Partner with Bsquare?

Bsquare has deep embedded HTML5 development experience and expertise and provides extensive services. These include:

- Phase Zero evaluation and analysis
- Product requirements
- Product road mapping/planning
- System architecture design and optimization
- System prototyping
- HMI/UI development
- WebKit optimization for any platform
- Project management services
- HTML5 extension creation
- Quality management services
- Ongoing system maintenance and support
- HTML5 training services

Next Steps

- To learn more about the Bsquare HTML5 Rendering Engine
- Visit <http://www.bsquare.com/products/html5-rendering-engine>
 - Call +1.425.519.5900 or +1.888.820.4500
 - Email sales@bsquare.com

For more information, please visit www.bsquare.com or email us at sales@bsquare.com.

About Bsquare

BSQUARE is a solution provider to the global embedded device community. Our teams collaborate with OEMs at any stage in their device development to bring quality products to market faster. Since 1994, BSQUARE has been a trusted partner to smart device makers worldwide.

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