

Smarter Set-Top Box Development Support

Bsquare offers end-to-end solutions for the set-top box market that meet your customers' needs now and in the future

Highlights

- **Technology Selection**
- **Extensive Hardware Support**
- **Software Selection & Development**
- **TestQuest Pro For Automated Testing**
- **Adobe® Flash® Support**



Overview

Today's set-top boxes do far more than connect television viewers to content providers and distributors. They are becoming a portal for streaming movies, Internet communication, social media, casual video gaming and more.

But, the increasing complexity of set-top boxes (STB) makes it vitally important to select the correct technology. Bsquare offers a full range of services from product design, development, support and quality assurance for STB designers and application developers enabling STB makers to move their products to market faster with higher quality.

Bsquare engineers have a deep understanding of the technical capabilities offered by all of the major STB chipset providers – such as STMicroelectronics, Broadcom, and Sigma Design – and can tailor the design and functionality of a STB to take full advantage of whatever chipset is chosen.

As a scaling partner with Adobe, Bsquare has access to source code for Adobe® Flash®, enabling both testing and verification of set-top box makers' Flash-based applications. Bsquare also provides custom solutions to set-top box makers using Adobe® Air®, the Adobe product that enables the use of applications without a browser.

Bsquare also offers STB testing and verification with TestQuest Pro. STB manufacturers can perform

Bsquare Services & Benefits

Bsquare offers end-to-end solutions for set-top box makers, from hardware and software selection, to system integration, to testing and compliance.

Bsquare services include:

Systems and software integration across leading components used by today's sophisticated set-top boxes

Experience in UI development with the Bsquare HTML5 Rendering Engine, Adobe Flash, Silverlight, or other leading user-interface rendering technologies

Broad experience developing for major embedded operating systems

Automated testing for STBs using Bsquare TestQuest Pro

Certification and licensing for Adobe Flash

Custom STB application development

complete regression testing and verify custom UI applications, check software implementation, test program guides, verify content and more with Quality Assurance and Testing solutions from Bsquare.

Moreover, Bsquare customers can select from a menu of engineering services to get the help that's right for their device, whether it's help with an electronic program guide, hardware or software selection, or the full range of end-to-end support from Bsquare.

SET-TOP BOX DEVELOPMENT SUPPORT

Technology selection

- Bsquare offers deep insight into the right STB components for today's market
- Assistance with selecting appropriate streaming formats
- Codec development and support
- Platform selection (OS)
- Hard Selection

Extensive hardware support

- Deep familiarity with other major chip providers, such as Broadcom and Sigma Design
- Partnership with STMicroelectronics for development and licensing on STi7105 chipset
- Support for customers developing their own STBs on major chipsets

Software selection and development

- Deep understanding and experience with STB operating system including Android™, Linux™, Microsoft Windows® Embedded and Windows Media Center Embedded
- Extensive experience in embedded UI development including graphic design and screen flows
- Expert in HTML5 rendering technology such as WebKit
- Broad based industry partner ecosystem for integrating third-party custom applications

TestQuest Pro for automated testing

- Quality assurance testing tool for STB makers
- Complete automated test environment for STBs
- Regression, functional, stress, UI, interoperability testing
- Support for video capture, IR simulation, remote control verification

Adobe Flash support

- Scaling partner for Adobe, with full access to source code for Adobe Flash
- Porting of Adobe Air TV (v2.5) to customers' STB design
- Creation of custom Air TV applications to maximize graphics, audio and video playback
- Testing support including guidance for the Adobe certification process

Next Steps

Contact your Bsquare Account Manager or call Bsquare at +1.888.820.4500 or +1.425.519.5900
Or email sales@bsquare.com for more information.

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

At 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.

Bsquare Headquarters
Toll-free +1.888.820.4500
Tel: +1.425.519.5900
sales@bsquare.com